Warning

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

JMI-0107

JQA-1452

About ISO 9001

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture, installation, and supplementary service" of products manufactured at the plant.

EC99J2044

About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the requirements of ISO 14001.

Dealer

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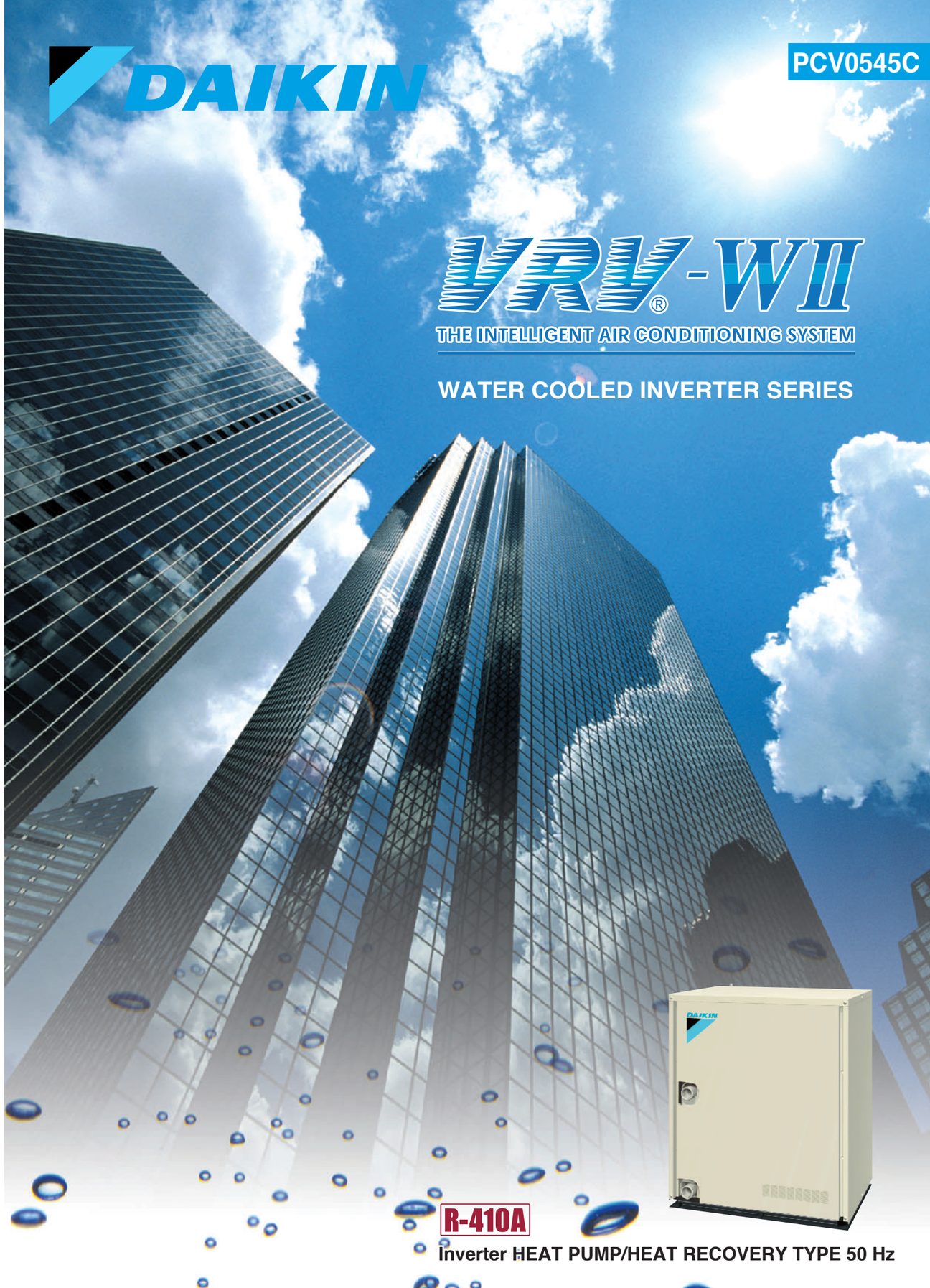
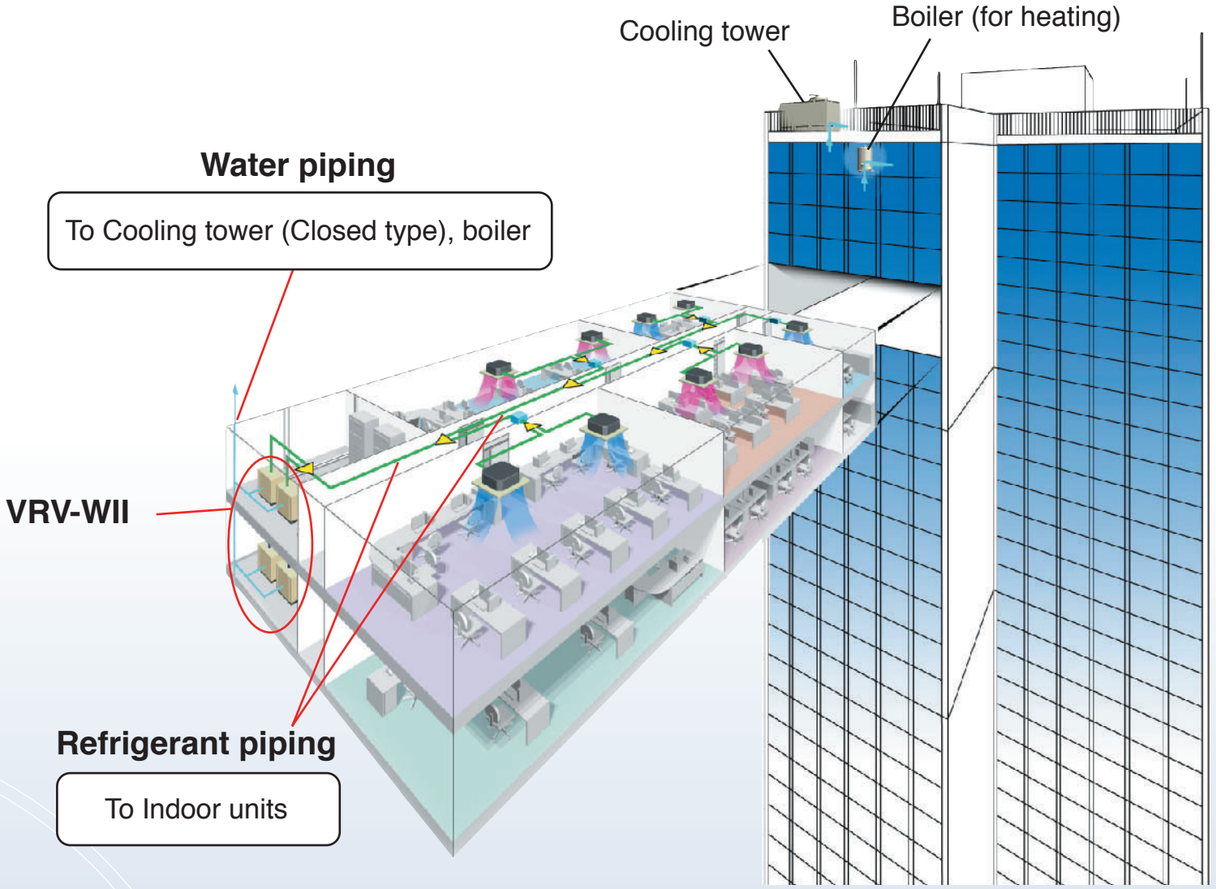


A water cooled intelligent system suitable for tall individual air conditioning multistoried buildings.

This unique system can perform as heat pump or heat recovery to any suitable application.

What is water cooled VRV II?

Water cooled VRV II is an individual air conditioning system that utilises water as a heat source. In this unique system, water is piped from a cooling tower or boiler to the VRV-WII (which is the equivalent of the outdoor unit of an air cooled conditioning system) and after heat exchange, refrigerant is piped from the VRV-WII to each indoor unit.



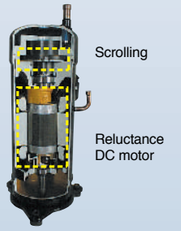
What are its advantages?

- **D**esign flexibility
- **E**asy installation
- **E**nergy saving
- **E**nhanced usability

Cutting-edge technologies

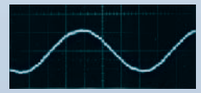
The compact unit is packed with the latest technologies.

High thrust mechanism



Smooth sine wave DC Inverter

By adoption of the Sine Wave, which smoothes the rotation of the motor, operation efficiency is improved sharply.

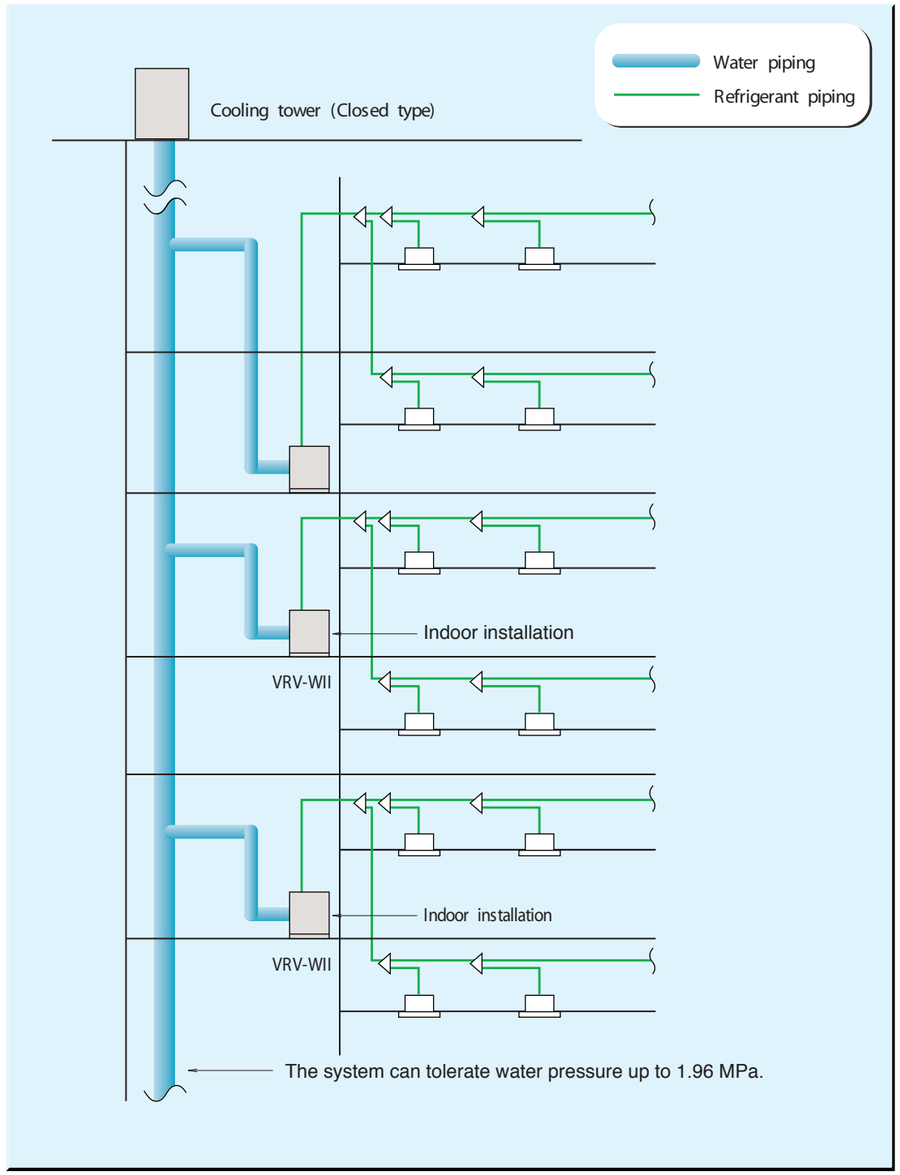


Design flexibility

Enhanced design flexibility

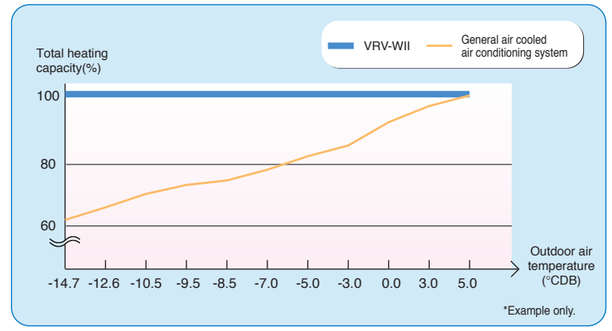
Water cooled VRV II uses water as its heat source so is eminently suitable for tall multistory or large buildings because the system can tolerate up to 1.96 MPa water pressure. Furthermore, if the currently installed heat source water temperature is between 10°C and 45°C, it may be possible to use the existing water pipe work and heat source. This alone makes it an ideal system solution for building refurbishment projects.

⋆ Prior consultation is necessary about the heat source equipment. Contact your Daikin dealer for details..



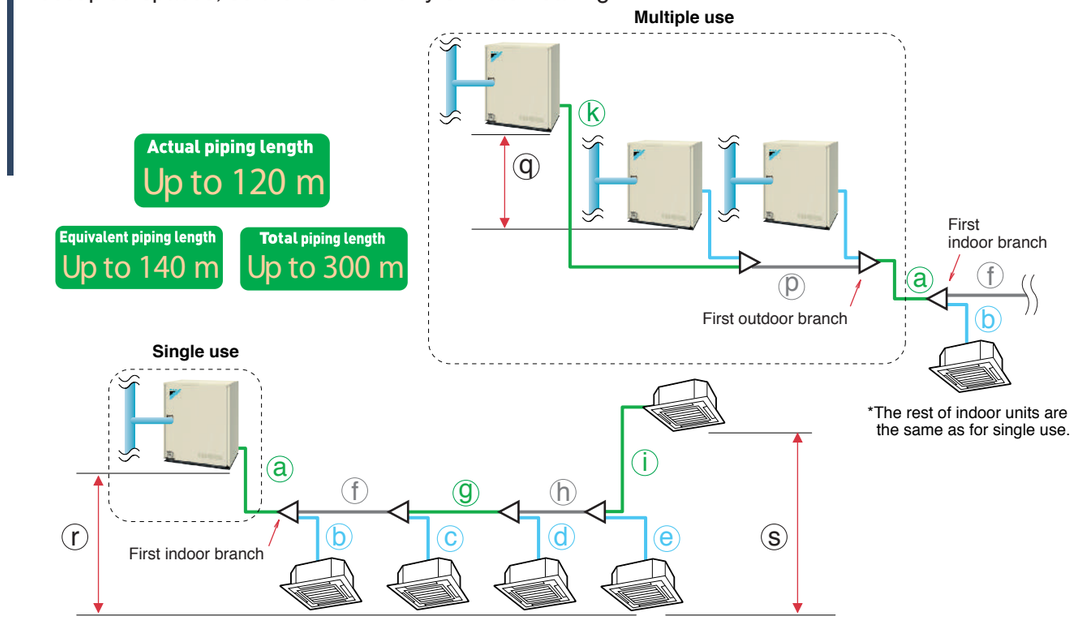
Cold climate capability

Because the system is water cooled, the outdoor air temperature does not affect capacity. Furthermore, water cooling means no defrost operation is required, so rapid starting assures quick and comfortable heating even in cold environments.



Long refrigerant piping length

Within the refrigerant piping system, up to 120 m of actual piping length and 50 m*1 of height difference between the VRV-WII and indoor units are possible. Water piping does not enter occupied spaces, so there is no worry of water leaking.



* Colours in the diagram above are merely for identifying pipes referenced with symbols such as ⓐ.

		Actual piping length	Equivalent piping length	Example
Maximum allowable piping length	Refrigerant piping length	120 m or less	140 m or less	a+f+g+h+i
	Total extension length	300 m or less	—	a+b+c+d+e+f+g+h+i
	Between the first indoor branch and the farthest indoor unit	40 m or less	—	f+g+h+i
	Between the first outdoor branch and the last outdoor unit	10 m or less	13 m or less	k+p
Maximum allowable level difference	Between the outdoor units (multiple use)	2 m or less	—	q
	Between the indoor units	15 m or less	—	s
	Between the outdoor units and the indoor units	50 m or less*1	—	r

*1 40 m or less if the outdoor unit is below.

• Refer to the Engineering Data for details of other requirements.

Easy installation

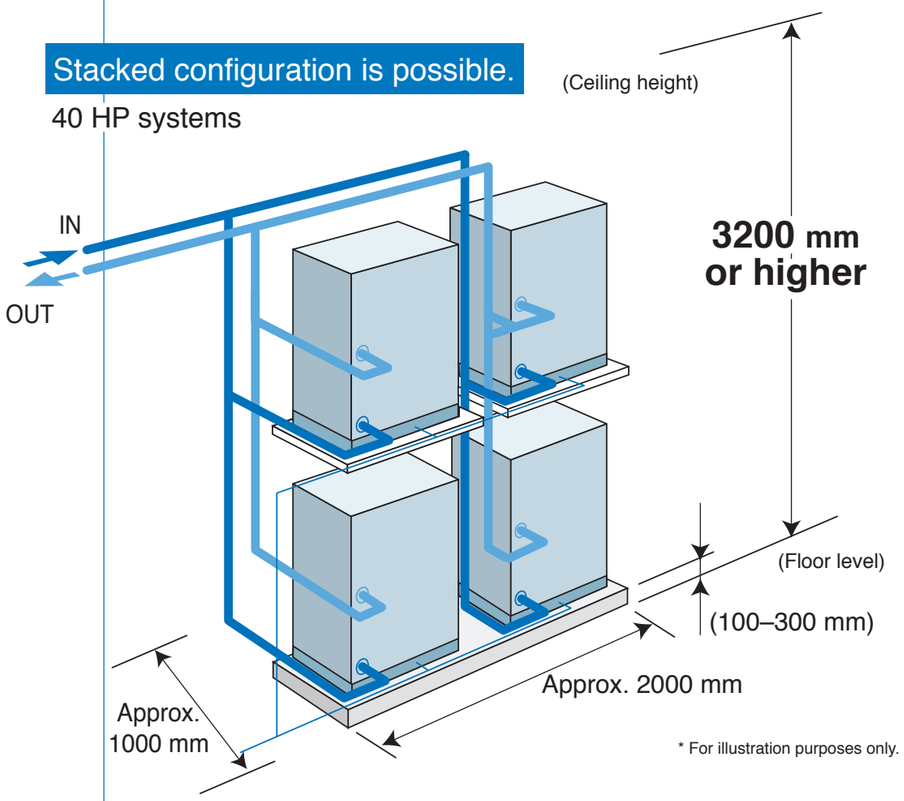
Compact and lightweight

Adoption of a new water heat exchanger and optimisation of the refrigerant control circuit has resulted in compact and lightweight equipment. A weight of 150 kg and height of 1,000 mm make installation possible in buildings with limited space, or where no space is available for outdoor units. This makes the system ideal for places that have no area outside—such as underground malls. Stacked configuration is also possible, further contributing to space savings.

* Unit is designed for indoor installation only.

Stacked configuration is possible.

40 HP systems

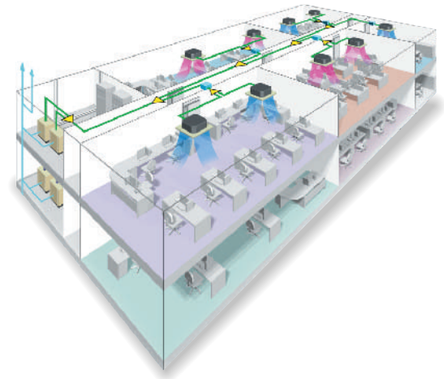


* For illustration purposes only.

Energy saving

Heat recovery

Daikin now offers 2-stage heat recovery operation.
The first stage of heat recovery operation is within the refrigerant system. By controlling the BS unit that switches cooling and heating, simultaneous cooling and heating operation is made possible, with heat recovery performed between indoor units.
The second stage of heat recovery operation is within the water loop, where heat recovery is performed between the VRV-WII units.
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

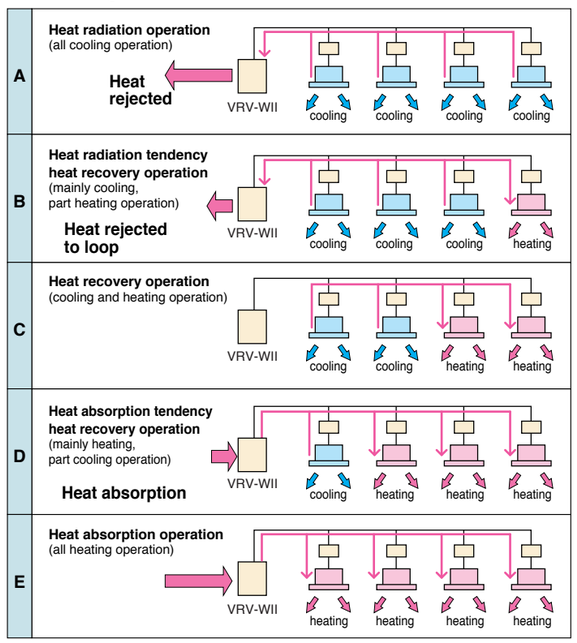


Stage 1

Simultaneous heating and cooling operation within the refrigerant system.

In mainly cooling, partly heating mode, the system recycles heat exhausted from the cooling operation to use for heating. In mainly heating, partly cooling mode, the system uses cooled post-heating operation refrigerant for cooling. Efficiency improves the more simultaneous operation is performed.

The first stage: Between indoor units

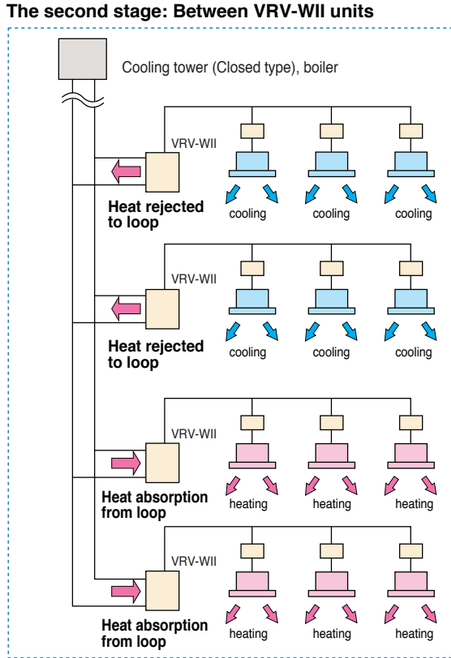


Stage 2

Heat recovery operation between the VRV-WII units.

Heat recovery operation is also available between systems connected to the same water loop, with systems exchanging heat via water. This increases energy efficiency.

The second stage: Between VRV-WII units



Notes: • Operation modes (A) and (E) are applicable when the outdoor temperature is 35°C and 0°C respectively; The other modes are applicable under typical outdoor conditions.
• Above system configurations are for illustration purposes only.

features

Enhanced usability

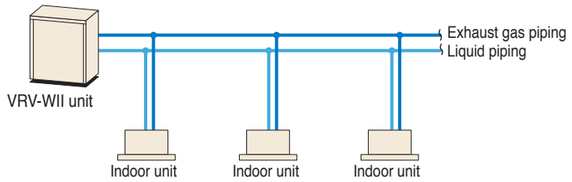
A variety of functions that realise easy installation and improve reliability

- Features a pump interlock function that controls the pump of the heat source simultaneously with the starting of the VRV-WII unit. This significantly simplifies operation and management.
- Employs DIII-NET to enable the shared use of the wiring between the indoor units, the VRV-WII unit and the central control wiring.
- Provides an auto address setting function and check function that detects connection errors in wiring and piping for easier installation.
- Water piping goes only to the VRV-WII unit, with refrigerant piping run in occupied spaces, making the system ideal for installing in spaces such as OA rooms, with no worry of water leakage or corrosion.

Easily responds to simultaneous heating and cooling needs.

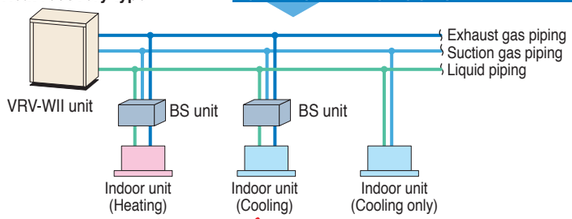
By adding suction gas piping and a BS unit (sold separately), simultaneous heating and cooling operation can be provided by a single system.

Standard system (Heat pump type)



By adding suction gas piping and a BS unit...

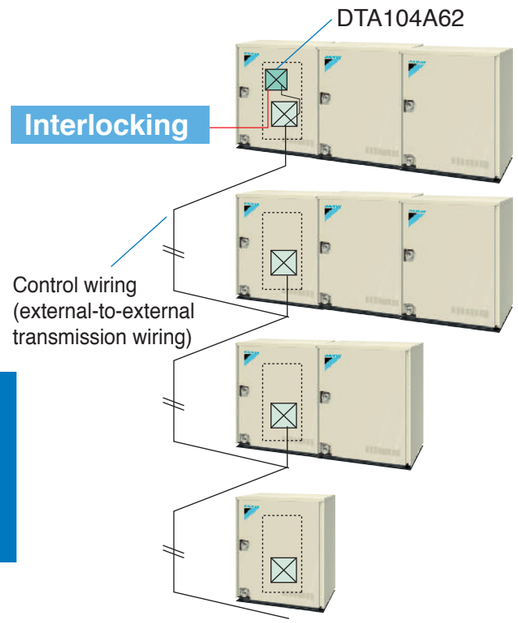
Heat recovery type



Centralised interlocking function

Centralised interlocking input is possible using an external control adaptor (DTA104A62).

By using one external control adaptor circuit board, centralised interlocking input to multiple units within the same water system is possible.



Outside unit lineup

A lineup of 10 to 30 HP models meets wide-ranging office space requirements. The modular design imparts a simple and smart appearance and makes units easy to install.

RWEYQ10MY1

Combination table for VRV-WII

HP	Model	Combination
10	RWEYQ10MY1	RWEYQ10MY1 × 1
20	RWEYQ20MY1	RWEYQ10MY1 × 2
30	RWEYQ30MY1	RWEYQ10MY1 × 3

* An outdoor unit multi connection piping kit (optional) is necessary for connection.

Series Lineup

Series	Capacity		
	10 HP	20 HP	30 HP
Heat pump type	●	●	●
Heat recovery type	●	●	●

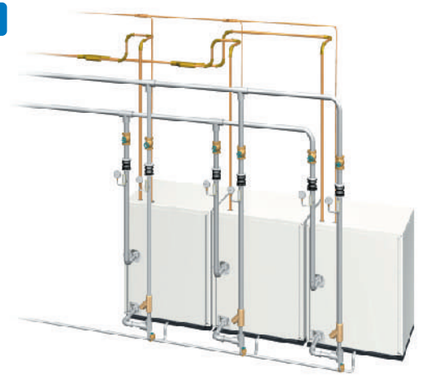
Numbers of connectable indoor units

Horse power	10 HP	20 HP	30 HP
Model	RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Number of connectable indoor units	Up to 16	Up to 20	Up to 32
Number of connectable BS units	Up to 16	Up to 20	Up to 32
Connectable capacity	50–130% of the rated capacity of the VRV-WII		

Example system layouts (Heat pump system)

* Pipes are connected as in illustration.

30 HP



Control systems

Individual Control Systems

Wired remote controller (Optional)

BRC1C62

- Easier to read because LCD screen is larger.
- Digital display lets you set temperature in 1°C units.
- Lets you individually programme by timer the respective times for operation start and stop within a maximum of 72 hours.
- Equipped with a thermostat sensor in the remote controller that makes possible more comfortable room temperature control.
- Enables you to select cool/heat/fan operation mode with the indoor remote controller of your choice without using the cool/heat selector.
- Constantly monitors malfunctions in the system for a min. of 40 items, and is equipped with a "self-diagnosis function" that lets you know by message immediately when a malfunction occurs.
- Lets you carry out various field settings by remote controller.
- Enables you to select the ventilation mode and the volume of the HRV.
- The rubber switch and the oil-resisting resin casing have been adopted for durability.

* When the auto-swing function is not available, the message, THIS FUNCTION IS NOT AVAILABLE is displayed when the wind direction adjustment button is pressed.

Wired remote controller with weekly schedule timer (Optional)

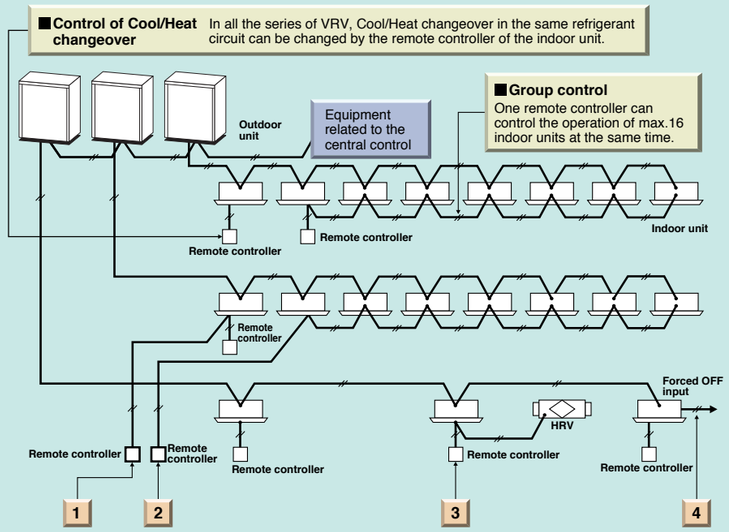
BRC1D61

Adds new, advanced functions to those of the above wired remote controller.

- Includes ventilation mode and airflow rate switching, the main functions of HRV series.
- 24-hour clock function (1-hour backup for power failures)
- Programming function for each day of week.
- Scheduling possible of start/stop and temperature limit (5 settings/day)
- Programming can be enabled or disabled.
- Copy function for programmed schedules.

Notes: 1. Standard remote controllers (BRC1C62) not required.
2. If the BRC1D61 is connected to the centralised remote controllers (DCS302CA61, DCS301BA61, DST301BA61), the schedule function is not available.

The wired remote controller supports a wide range of control functions



1 Control by two remote controller
The indoor unit can be connected by the two remote controller, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely. (The last command has a priority.) Of course, the group control by two remote controller is also possible.

2 Remote control
The wiring of remote controller can be extended to max.500m and it is possible to install the remote controllers for the different indoor units in one place.

3 Control for the combined operation
The operation of HRV can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.

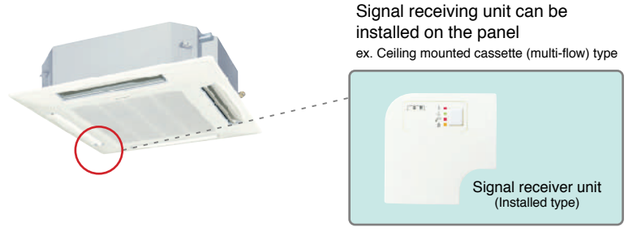
4 Expansion of system control
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Wireless remote controller (Optional)

Wireless remote controller

Signal receiver unit
(Separate type)

- The same operation modes and settings as with wired remote controllers are possible.
  - A light receiving unit for a ceiling-mounted cassette (double-flow, multi-flow) type, ceiling-suspended type and wall-mounted type is mounted into the indoor unit.


Signal receiving unit can be installed on the panel
ex. Ceiling mounted cassette (multi-flow) type
Signal receiver unit
(Installed type)

*Refer to page 39 for the name of each model.

Simple remote controller (Optional)

Exposed type
(BRC2C51)

Concealed type
(For hotel use)
(BRC3A61)

- The remote controller has centralised its frequently used operation selectors and switches (on/off, operation mode, temperature setting and airflow volume), making itself suitable for use in hotel rooms or conference rooms.
- The exposed type remote controller is fitted with a thermostat sensor.

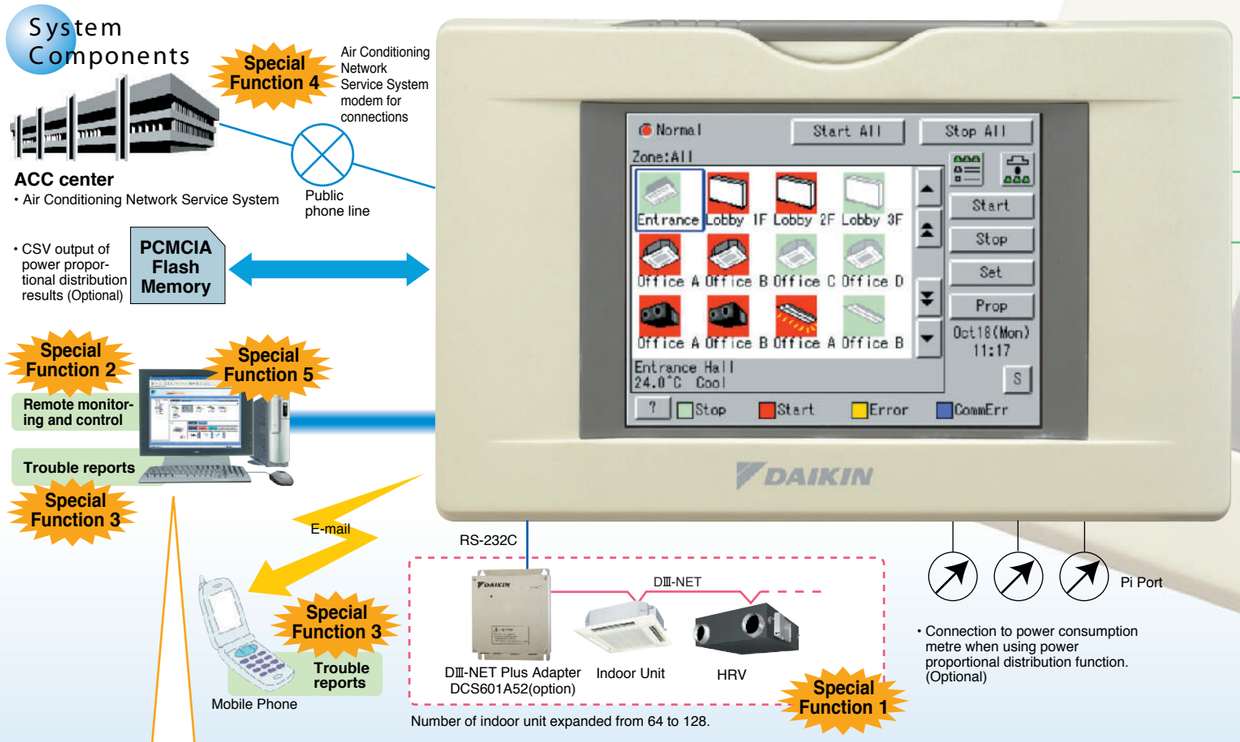
The concealed-type remote controller smartly fits into a night table or console panel in a hotel room.

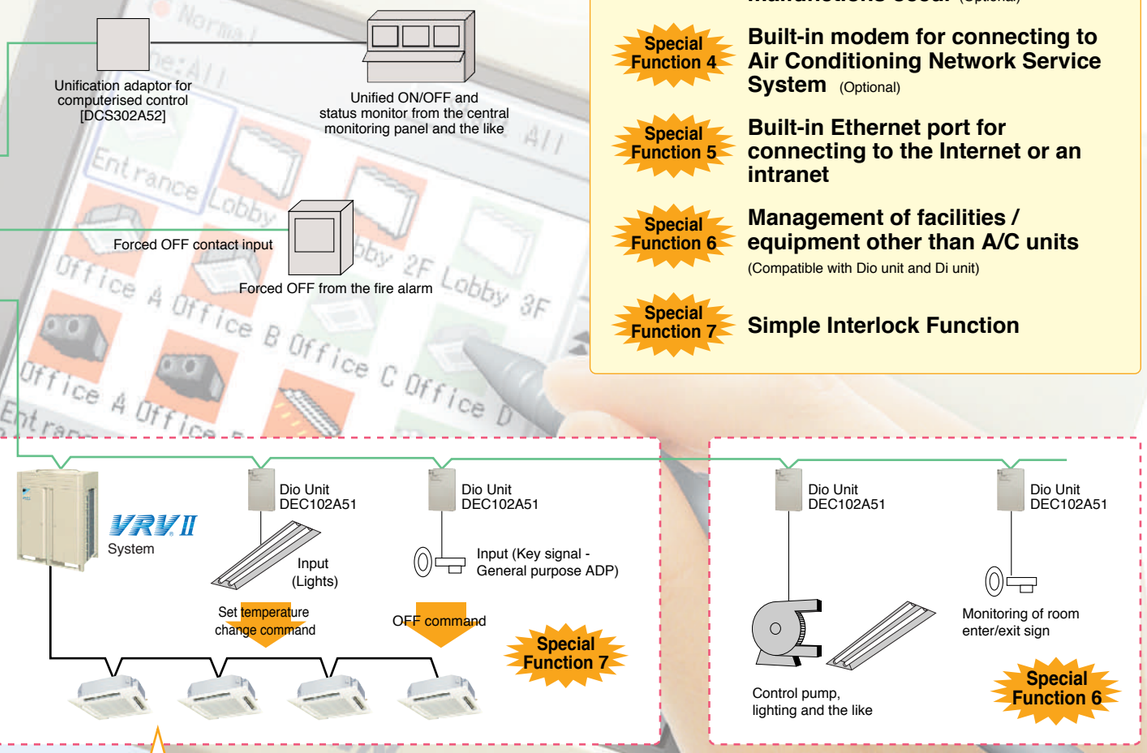
Wide variation of remote controllers for indoor units

	FXCQ	FXFQ	FXKQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXUQ
Wired remote controller	●	●	●	●	●	●	●	●	●	●
Wired remote controller with weekly schedule timer	●	●	●	●	●	●	●	●	●	●
Wireless remote controller (Installed signal receiver unit)	●	●					●	●		●
Wireless remote controller (Separate type signal receiver unit)			●	●	●	●			●	
Simple remote controller (Exposed type)				●	●	●			●	
Simple remote controller (Concealed type: for Hotel use)				●	●	●			●	

Communication functions in the user-friendly icon- based multilingual controller simplify centralised control of the VRV system.

The user-friendly controller already features colours, multilingual function, and icons in the display for ease of understanding; now, further convenience has been added. New communication capabilities enable centralised control via a Web browser and the sending of e-mail alerts on system operation. A wide variety of control methods can be accommodated, permitting administrators to monitor and operate the system even when they are away from the controller.




Unification adaptor for computerised control [DCS302A52]
Unified ON/OFF and status monitor from the central monitoring panel and the like
Forced OFF contact input
Forced OFF from the fire alarm
VRV II System
Dio Unit DEC102A51
Dio Unit DEC102A51
Input (Lights)
Input (Key signal - General purpose ADP)
Set temperature change command
OFF command
Special Function 7
Dio Unit DEC102A51
Dio Unit DEC102A51
Monitoring of room enter/exit sign
Control pump, lighting and the like
Special Function 6

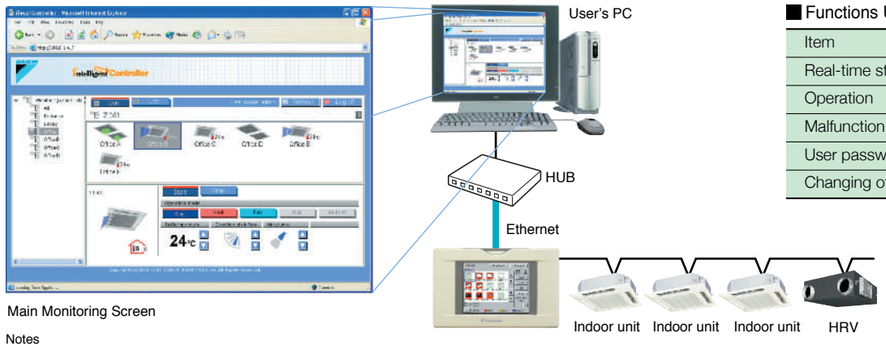
- **Special Function 1** Doubling of number of connectable indoor units by adding a DIII-NET Plus Adapter (Optional)
- **Special Function 2** Support for centralised control from elsewhere using a PC with a Web browser (Optional)
- **Special Function 3** Sending of e-mail alerts to a specified address when malfunctions occur (Optional)
- **Special Function 4** Built-in modem for connecting to Air Conditioning Network Service System (Optional)
- **Special Function 5** Built-in Ethernet port for connecting to the Internet or an intranet
- **Special Function 6** Management of facilities / equipment other than A/C units (Compatible with Dio unit and Di unit)
- **Special Function 7** Simple Interlock Function

A controller that offers freedom to administrators.

It is possible to control the air conditioning system, via the Internet, from your home or any other location with a PC. Should a malfunction occur, a notification is sent by e-mail to a mobile phone or PC (e-mail address specified by the user). This gives administrators the freedom to leave the room where the controller is located.

• Special Software Is Not Required!

Control and management are possible via the standard Web browser that comes installed on all PCs.



Main Monitoring Screen

■ Functions Usable with a Web Browser

Item
Real-time status monitoring
Operation
Malfunction history display
User password setting
Changing of language displayed

Notes
1. Microsoft Internet Explorer 6.0 SP1, or a later version, is the recommended Web browser for use with the system.
2. The J2SE V1.4.2 Java plug-in from Sun Microsystems is required.

Simple Interlock Function

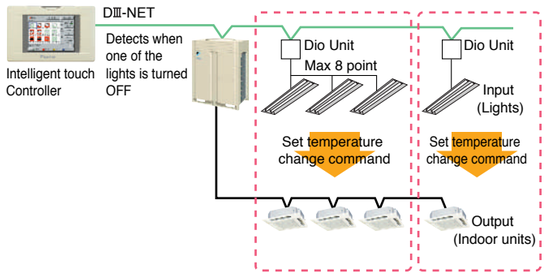
The simple interlock function allows for controlling of multiple groups and zones (e.g.,ON/OFF; R/C rejection; Operation mode; Set temperature; Ventilation mode; Ventilation rate setting) based on the operation status (or contact input status in the cases of D3Di and D3Dio) of the selected groups or zones.

• The unit conducting control is called the interlock program, and up to 128 programs can be registered.

Usage example

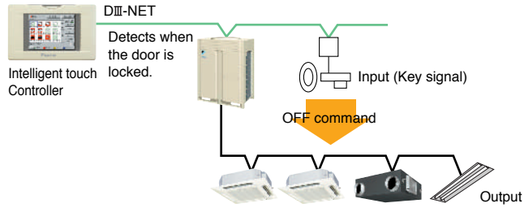
• Lighting interlock

Energy is conserved by increasing/decreasing the set temperature for the indoor units when one of the lights in the same office is turned OFF. (The set temperature increases when cooling and decreases when



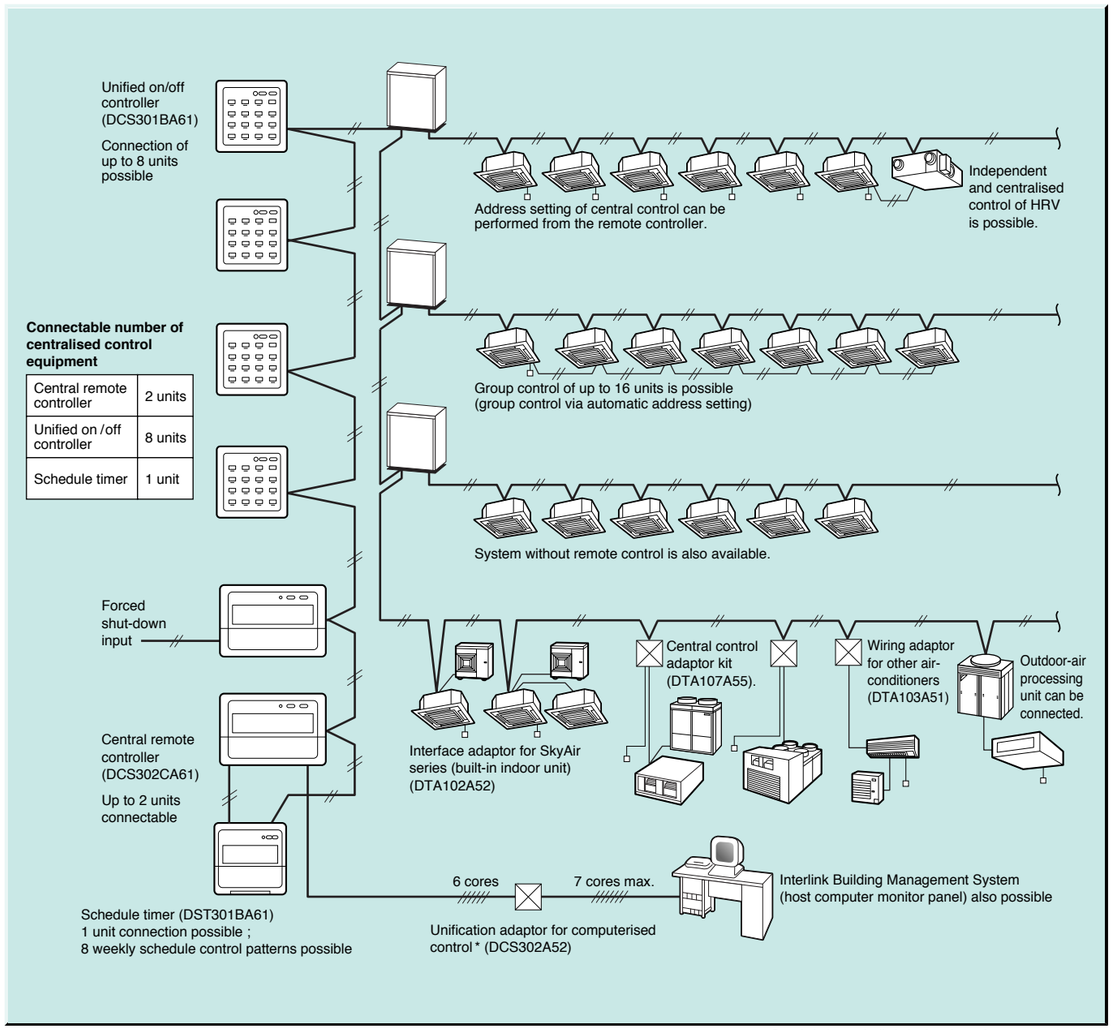
• Key interlock [When the last person leaving the room has forgotten to turn the system off]

Turns off all indoor units, HRV and lights after somebody leaves the office or the like (and locks the doors) without turning these off. Combining the temperature limit function in hotels and the like allows for improved comfort upon the next entry into the room by maintaining a constant room temperature when the user is out. (In the simple interlock function, the temperature limit function can be activated when the indoor units are turned OFF.



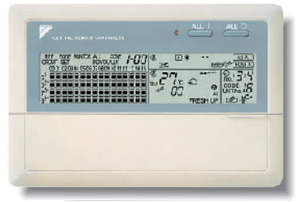
Centralised Control Systems

- Up to 64 groups of indoor units (128 units) can be centrally controlled.
- Optional controllers for centralised control can be combined freely, and system can be designed in accordance with building scale and purpose.
- System integration with various air-conditioning peripheral equipment such as HRV (Heat Reclaim Ventilation) is easy.
- Wiring can be run up to a total length of 2 km, and adapts easily to large-scale system expansion.


Unified on/off controller (DCS301BA61)
Connection of up to 8 units possible
Address setting of central control can be performed from the remote controller.
Independent and centralised control of HRV is possible.
Connectable number of centralised control equipment
Central remote controller 2 units
Unified on /off controller 8 units
Schedule timer 1 unit
Group control of up to 16 units is possible (group control via automatic address setting)
System without remote control is also available.
Forced shut-down input
Central remote controller (DCS302CA61)
Up to 2 units connectable
Interface adaptor for SkyAir series (built-in indoor unit) (DTA102A52)
Central control adaptor kit (DTA107A55).
Wiring adaptor for other air-conditioners (DTA103A51)
Outdoor-air processing unit can be connected.
Schedule timer (DST301BA61)
1 unit connection possible ;
8 weekly schedule control patterns possible
6 cores
7 cores max.
Unification adaptor for computerised control * (DCS302A52)
Interlink Building Management System (host computer monitor panel) also possible

•Certain indoor units limit the functions of some control systems.
For more details, please refer to the Engineering Data.

Central remote controller (Optional)



DCS302CA61

64 groups (zones) of indoor units can be controlled individually same as LCD Remote controller.

- Max. 64 groups (128 indoor units controllable)
- Max. 128 groups (128 indoor units) are controllable by using 2 central remote controllers, which can control from 2 different places.
- Zone control
- Malfunction code display
- Max. wiring length 1,000 m (Total: 2,000 m)
- Combination with Unified ON/OFF controller, schedule timer and BMS system
- Airflow volume and direction can be controlled individually for indoor units in each group operation.
- Ventilation volume and mode can be controlled for Heat Reclaim Ventilation (HRV).
- Up to 4 Operation/Stop pairs can be set per day by connecting a schedule timer.

Unified ON/OFF controller (Optional)

DCS301BA61

16 groups of indoor units can be operated simultaneously/individually.

- Max. 16 groups (128 indoor units) controllable
- 2 remote controllers can be used to control from 2 different places.
- Operating status indication (Normal operation, Alarm)
- Centralised control indication
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Combination with Central Remote controller, Schedule timer and BMS system

Schedule timer (Optional)

DST301BA61

Max.128 indoor units can be operated as programmed schedule.

- Max. 128 indoor units controllable
- When used in combination with a central remote controller, a maximum of 8 weekly schedule patterns can be set, while the central controller can be used to select desired zones. Up to 2 Operation/Stop pairs can be set per day.
- Max. 48 hours back up power supply
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Combination with Central Remote controller, Unified ON/OFF controller and BMS system

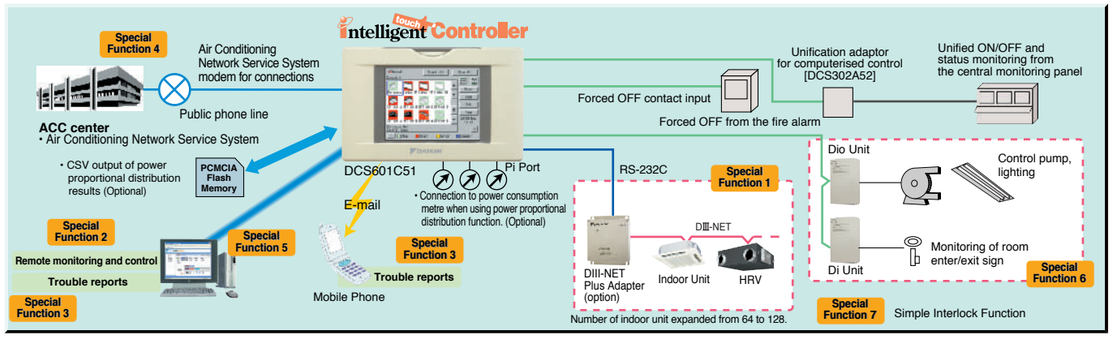
Interface adaptors (Optional)

Part name	Model No.	Function
Unification adaptor for computerised control	★ DCS302A52	Interface between the central monitoring board and central control units. Combined with the central remote controller, this adaptor enables the central monitoring board to centralise such functions as the on/off control, operation status monitoring, and normal/malfunction monitoring.(*1)
Interface adaptor for SkyAir series	★ DTA102A52 For SkyAir, FD(Y)M-FA, FDYB-KA, FDY-KA, FVY(P)J-A, FXUQ-M	Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
Central control adaptor kit	★ DTA107A55 For UAT(Y)-K(A), FD-K	
Wiring adaptor for other air-conditioner	★ DTA103A51 For air conditioners other than mentioned above.	

Note: 1. Installation box for ★ adaptor must be procured on site.

Advanced control systems

intelligent touch Controller



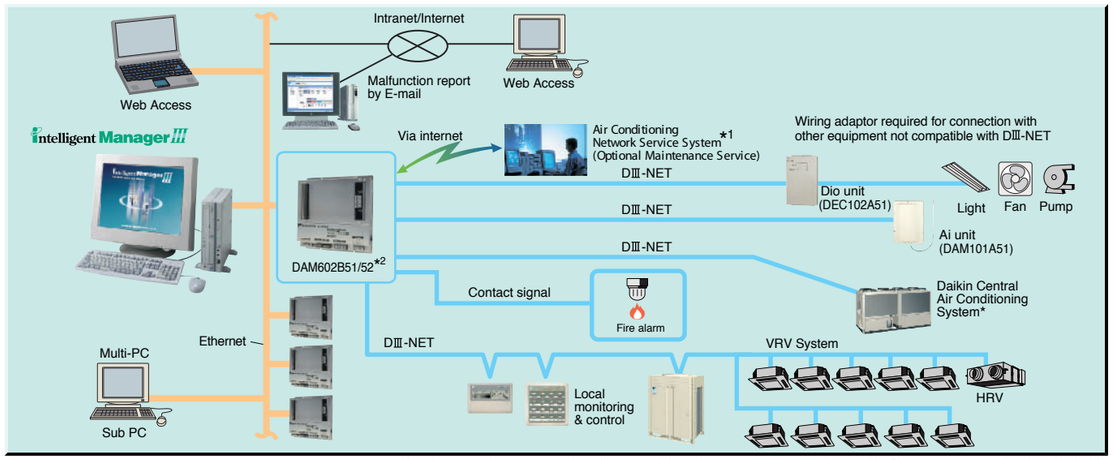
The communication functions in the user-friendly icon-based multilingual controller simplify centralised control of the VRV system.

- Colour LCD touch panel icon display
- Small manageable size
- Simplified engineering
- Multi language (English, French, Italian, German, Spanish and Chinese)
- Yearly schedule
- P.P.D. (Power Proportinal Distribution function) (Optional)
- Auto heat/cool change-over
- Temperature limitation
- History of 500 actions
- Air Conditioning Network Service System (Optional Maintenance Service)
- Simple Interlock Function

Special Functions

Special Function 1	Doubling of number of control points by adding a DIII-NET Plus Adapter (Optional)
Special Function 2	Support for centralised control from elsewhere using a PC with a Web browser (Optional)
Special Function 3	Sending of e-mail alerts to a specified address when malfunctions occur (Optional)
Special Function 4	Built-in modem for connecting to Airnet Service System (Optional)
Special Function 5	Built-in Ethernet port for connecting to the Internet or an intranet
Special Function 6	Management of facilities / equipment other than A/C units(Compatible with Dio unit and Di unit)
Special Function 7	Simple Interlock Function

New intelligent Manager III



★Interfacing requirements vary depending on model, and some systems may not be suitable. Please contact your distributor for details.
• Information on these systems is preliminary only. Please contact Daikin for formal information on the products.

Centralised control system for easy provision of effective control and monitoring of VRV system functions

New Features

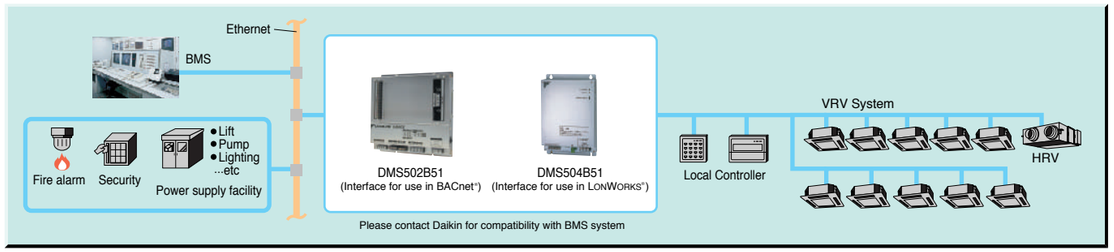
- Monitor and control from the remote site by Web browser (Optional)
- PPD data can be managed from the remote site by Web browser (Optional)
- Send malfunction report through the Internet by E-mail (Optional)
- Compliant with the RoHS Directive* (DAM602B51/52)

- Floor visual navigation
- Graphical report
- Multi-PC access
- Analogue interlock
- Automatic heat/cool change-over
- Temperature limitation
- Sliding temperature <Optional (DAM101A51) unit required>
- Energy saving function (ECO mode. Power limit control) (Optional)
- Air Conditioning Network Service System (Optional Maintenance Service)

New Functions

- **Features control and monitoring functions for central A/C products and an Air Conditioning Network Service function.**
- **Using an external contact via DIII-NET, monitors and controls equipment such as lighting, fans, or building security systems.**

Interface for BACnet® and LONWORKS®



Integrated control systems that recognise the trend of open control systems

- Compatibility with BMS enhanced by utilising the international communication standards, BACnet® or LONWORKS®.

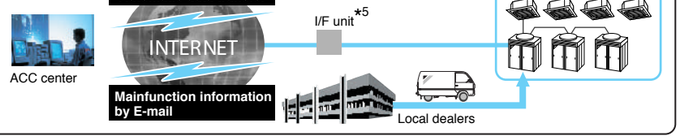
DMS504B51 Interface for use in LONWORKS®
- XIF file for confirming of specifications of the units.
- Connectable up to 10 outdoor units and 64 indoor unit groups.

New DMS502B51 Interface for use in BACnet®
- Conformance class 3 (ASHRAE 135–1995)
- Standard BACnet® Device B-ASC (ASHRAE 135–2001)
- PPD data (Optional Di board is required.)
- ISO 16484-5 (Does not support IEEE 802.3 protocol for BACnet®)
- Compliant with the RoHS Directive*
- Up to 40 outdoor units and 256 indoor unit groups on one gateway. (optional adapter)

Air Conditioning Network Service System

Maintenance services that boost profits and customer satisfaction

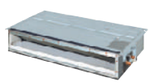
- 24 hour on-line diagnostic system
- Energy saving and extention of aircon operating life
- Maintenance management via A/C network service system reports
- Reliable service at shortest lead time



★1. There are restrictions in applicable areas and release times, therefore please consult us separately for details.
★2. Model name varies upon the system size.
★3. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
★4. LONWORKS® is a registered trade mark of Echelon Corporation.
★5. For an I/F unit, one of the following can be selected: Local Controller, intelligent touch Controller, or intelligent Manager III.
★6. Ethernet is a registered trademark of Xerox Corporation.
★7. Refer to the Options page for the name of each model.

* RoHS Directive: The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

Indoor units line up

Type	Model name		Capacity range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	8 HP	10 HP
			Capacity index	20	25	31.25	40	50	62.5	80	100	125	200	250
Ceiling Mounted Cassette (Double-flow)	**FXCQ-MVE**			●	●	●	●	●	●	●		●		
Ceiling Mounted Cassette (Multi-flow) Super Cassette	**FXFQ-MVE**				●	●	●	●	●	●	●	●		
Ceiling Mounted Cassette Corner	**FXKQ-MAVE**				●	●	●		●					
Slim Ceiling Mounted Duct	**FXDQ-PVE** (700 mm width type)	with drain-up pump		●	●	●								
	FXDQ-PVET (700 mm width type)	without drain-up pump		●	●	●								
	FXDQ-NAVE (900/1,100 mm width type)	with drain-up pump		●	●	●	●	●	●					
	FXDQ-NVET (900/1,100 mm width type)	without drain-up pump		●	●	●	●	●	●					
Ceiling Mounted Built-in	**FXSQ-MVE**			●	●	●	●	●	●	●	●	●		
Ceiling Mounted Duct	**FXMQ-MAVE**						●	●	●	●	●	●	●	●
Ceiling Suspended	**FXHQ-MAVE**					●			●		●			
Wall Mounted	**FXAQ-MAVE**			●	●	●	●	●	●					
Floor Standing	**FXLQ-MAVE**			●	●	●	●	●	●					
Concealed Floor Standing	**FXNQ-MAVE**			●	●	●	●	●	●					

* R410A VRV system indoor units are not compatible with the R22 VRV system.

Connection unit series indoor units

Type	Model name		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	3 HP	4 HP	5 HP
			Capacity Index	20	25	31.25	40	50	71	100	125
			Connection Unit	–					BEVQ71MAVE	BEVQ100MAVE	BEVQ125MAVE
Ceiling suspended cassette	**FXUQ-MAV1**								●	●	●

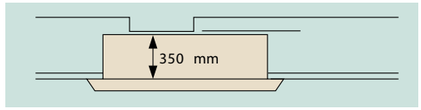
Notes: • Indoor units in the 63 class are not available for the above models.
• BEV units are necessary for Connection unit series indoor units. Refer to the Engineering Data for details.

Ceiling mounted cassette (double-flow) type

FXCQ20M/FXCQ25M/FXCQ32M
FXCQ40M/FXCQ50M/FXCQ63M
FXCQ80M/FXCQ125M

Thin, lightweight, and easy to install in narrow ceiling spaces

- The thin unit (only 350 mm high) can be installed in a ceiling space as narrow as 355 mm. All models feature a compact design with a depth of only 600 mm.



(When a high-efficiency filter is attached, the unit's height is 400 mm.)

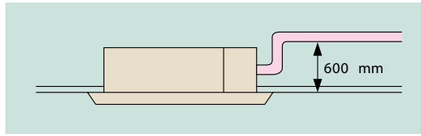
- Low operating sound (dB(A))

Class		20	25/32	40/50	63	80	125
Operating Sound (H/L)	220V	32/27	34/28	34/29	37/32	39/34	44/38
	240V	34/29	36/30	37/32	39/34	41/36	46/40

- Designed with higher air flow suitable for high ceiling application up to 3 metres.

- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.

- Drain-up pump is equipped as standard accessory with 600 mm lift.



- Two types of optional high-efficiency filter are available (65% and 95% NBS).

- A long-life filter (maintenance free up to one year) is equipped as standard accessory.

- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Ceiling mounted cassette (multi-flow) type

SUPER CASSETTE

FXFQ25M/FXFQ32M/FXFQ40M
FXFQ50M/FXFQ63M/FXFQ80M
FXFQ100M/FXFQ125M

Super Cassette type is compact, quiet and easy to install.

- Regardless of their difference in capacity, all indoor units feature the same panel size and design, in consideration of harmonised interior decor.

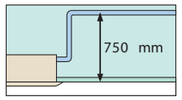
- The FXFQ25M-80M are thin models (246 mm) which can be installed in narrow false ceilings of at least 265 mm depth.
- Because of the light weight, suspension is easy.
- Low operating sound

(220 V-240 V)(dB(A))

Class	25	32	40	50	63	80	100	125
Operating sound (H/L)	30/27	30/27	31/27	32/27	33(34)★/28	36/31	39/33	42(43)★/36

Note: Operating sound may increase more than that when using with 3-way discharge or 2-way discharge, or when using together with a optional kit.
★: The values of Hi mode Sound level represent those during cooling operation. Those during heating operation are shown in brackets for two models only.

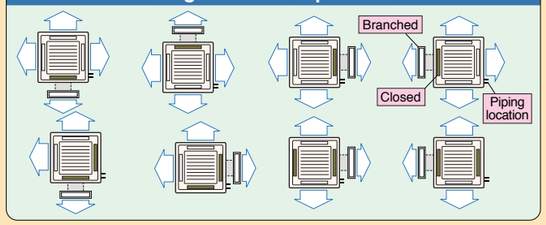
- Provided with high lift drain water lift-up mechanism. (Increased lift of drain pipe up to 750 mm from the ceiling.)



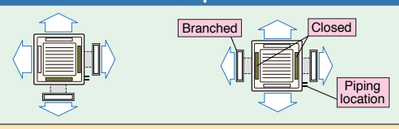
- Installing the fresh air intake is now easier using the new optional kit which requires no special chambers.
- A long-life filter (maintenance-free period extended from one year to two) is equipped as standard accessory.

- 7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of installation site or the shape of the room.
- The number of installation method using ducts has increased as shown below.

Single branch– 8 patterns



2 branches–2 patterns



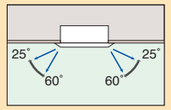
Can also be installed in high ceilings.

		Number of discharge outlets used					
		FXFQ25M-80M			FXFQ100M-125M		
		4-way air discharge	3-way air discharge	2-way air discharge	4-way air discharge	3-way air discharge	2-way air discharge
Ceiling height	Standard	2.7 m	3.0 m	3.5 m	3.2 m	3.6 m	4.2 m
	High ceiling ①	3.0 m	3.3 m	3.8 m	3.6 m	4.0 m	4.2 m
	High ceiling ②	3.5 m	3.5 m	–	4.2 m	4.2 m	–

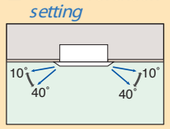
Note: Set standard 4-way discharge when shipped.
High ceiling types ① and ② will be set for remote control operation.

There are 3 patterns in auto swing operation

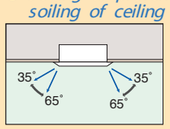
Pattern **1** *Standard setting*



Pattern **2** *Draft Prevention setting*



Pattern **3** *Setting to prevent soiling of ceiling*



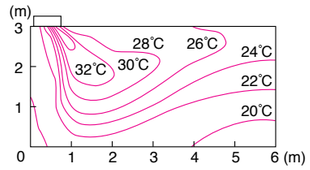
✻ Has been set to standard setting at time of shipment.
This can be changed using the remote control.

Ceiling mounted cassette corner type

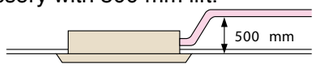
FXKQ25MA/FXKQ32MA
FXKQ40MA/FXKQ63MA

Slim design for flexible installation

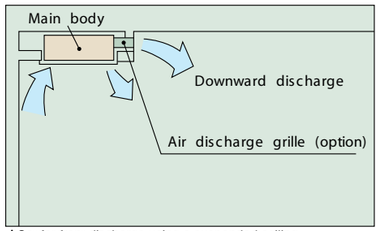
- Compliant with the RoHS Directive*
- Single-flow type allows effective air discharge from corner or from drop-ceiling.
- Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.



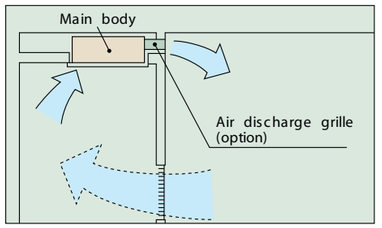
- Drain-up pump is equipped as standard accessory with 500 mm lift.



- Front discharge is possible with a air discharge unit (optional), which allows the installation in the drop-ceiling or sagging wall.

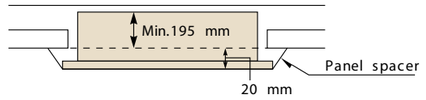


✻Set for front discharge using a suspended ceiling.



✻Downward discharge is shut off and air is blown straight out (front discharge).

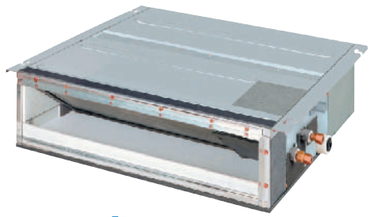
- Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (optional), the unit can be installed in the min. space of 195 mm.



- A long-life filter (maintenance free up to one year) is equipped as standard accessory.

* RoHS Directive: The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

Slim ceiling mounted duct type

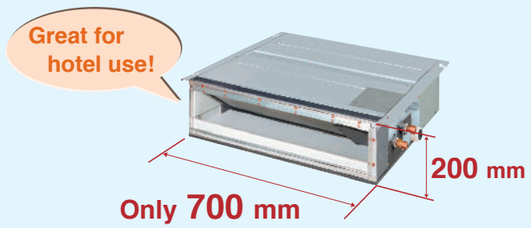


Slim design, quietness and static pressure switching

Suited to use in drop-ceilings!

FXDQ20P/ FXDQ25P/ FXDQ32P

- Only 700 mm in width and 23 kg in weight, this model is suitable to install in limited spaces like drop-ceilings in hotels.



- Low operating sound

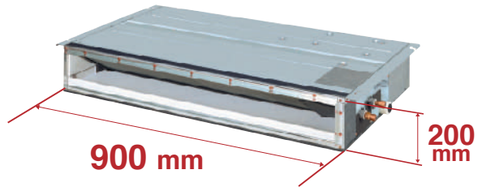
(dB(A))

Class	20	25	32	40	50	63
Operating sound (H/L)	33/29	33/29	33/29	34/30	35/31	36/32

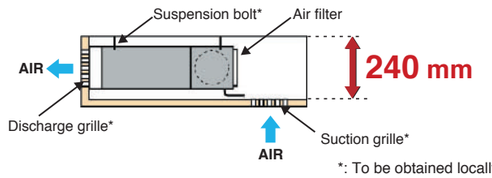
*The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB.
*Values are based on the following conditions:
FXDQ-P: external static pressure of 10 Pa; FXDQ-N(A): external static pressure of 15 Pa.

FXDQ20N(A)/FXDQ25N(A)
FXDQ32N(A)/FXDQ40N(A)
FXDQ50N(A)/FXDQ63N(A)

- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm depth between the drop-ceiling and ceiling slab.



*1,100 mm in width for the FXDQ63N(A) model.



*: To be obtained locally

- Compliant with the RoHS Directive*

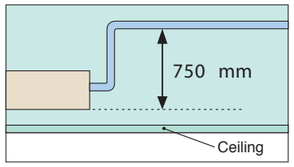
* For FXDQ-PVE and FXDQ-NAVE models only.

- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.

10 Pa-30 Pa/factory set: 10 Pa for FXDQ-P models.
15 Pa-44 Pa/factory set: 15 Pa for FXDQ-N(A) models.

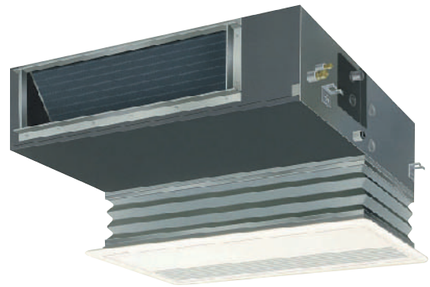
- FXDQ-P and FXDQ-N(A) models are available in two types to suit different installation conditions.

FXDQ-PVE, FXDQ-NAVE:
with a drain-up pump (750 mm lift) as a standard accessory
FXDQ-P(N)VET: without a drain-up pump



Ceiling mounted built-in type

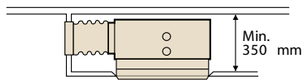
FXSQ20M/FXSQ25M/FXSQ32M
FXSQ40M/FXSQ50M/FXSQ63M
FXSQ80M/FXSQ100M/FXSQ125M



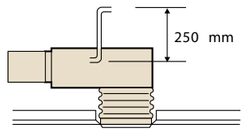
Highly flexible for various application

- Highly flexible installation is possible with a complete line-up of optional kits to satisfy various needs, such as the design concept, interior decoration and so on.

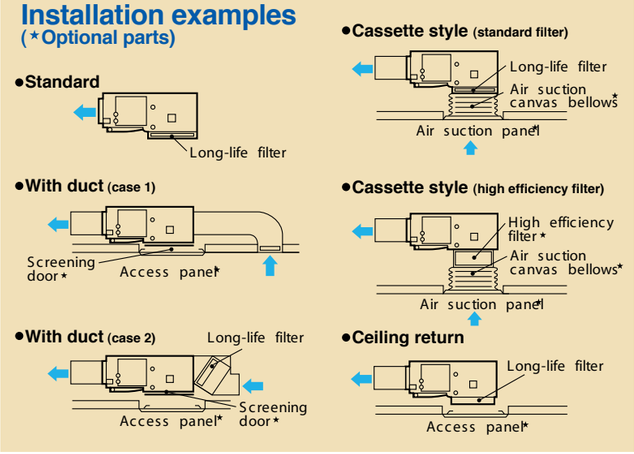
- The unit can be installed, if there is a space of 350 mm above ceiling. (when suction panel is used.)



- Drain-up pump is equipped as standard accessory with 250 mm lift.



Installation examples
(*Optional parts)



- High external static pressure allows the use of even flexible ducts of various length.

- Low operating sound

(dB(A))

Class		20	25	32	40	50	63	80	100	125
Operating Sound (H/L)	220V	37/32	37/32	38/32	38/32	41/36	42/35	43/37	43/37	46/41
	240V	39/34	39/34	40/34	40/34	43/38	44/37	45/39	45/39	48/43

- Two types of optional high-efficiency filter are available (65% and 95% NBS).

- A long-life filter (maintenance free up to one year) is equipped as standard accessory.

* RoHS Directive: The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

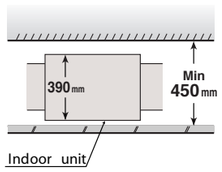
Ceiling mounted duct type

FXMQ40MA/FXMQ50MA
FXMQ63MA/FXMQ80MA
FXMQ100MA/FXMQ125MA

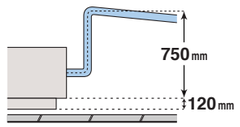
High static pressure allows flexible duct design

- Compliant with the RoHS Directive*
- More than 150 Pa of external static pressure
- High external static pressure allows extensive duct work for flexible applications.
- Full line-up of 8 models from 40 to 250 type.
- Optional accessories include a drain-up kit, high-efficiency filters (65% and 95% NBS) and a long-life filter (maintenance free up to 1 year).

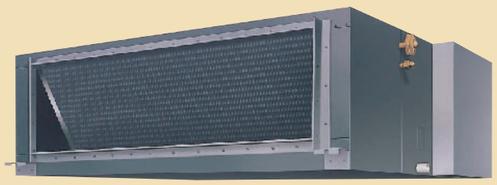
- Without drain



- Drain-up pump is equipped as optional accessory with 750 mm



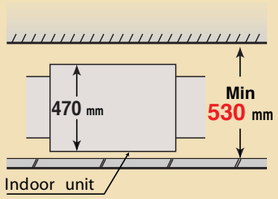
FXMQ200MA/FXMQ250MA



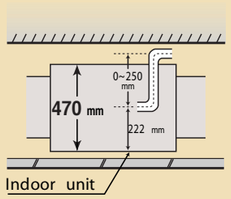
- Compliant with the RoHS Directive*
- **Simplified Static Pressure Control**
  External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

- **Built-in Drain Pump** (optional)
  Housing the drain pump inside the unit has reduced the space required for installation.

- Without drain



- With drain



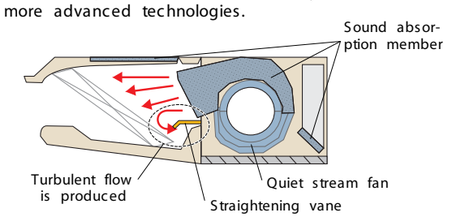
Ceiling suspended type

FXHQ32MA/FXHQ63MA
FXHQ100MA

Slim body with quiet and wide air flow

- Compliant with the RoHS Directive*
- Adoption of newly designed QUIET STREAM FAN

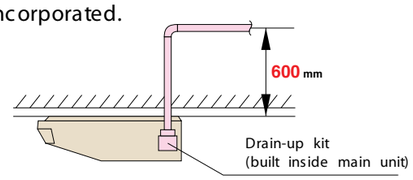
  Uses the quiet stream fan and many more advanced technologies.



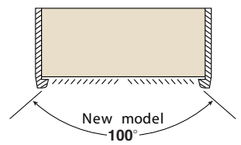
- Low operating sound (220V-240V)(dB(A))

Class	32	63	100
Operating sound (H/L)	36/31	39/34	45/37

- Installation is easy
  - Drain-up kit (optional) can be easily incorporated.

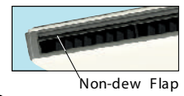


- Wide air discharge openings produce a spreading 100° air flow



- Maintenance is easy
  - Non-dew Flap with no implanted bristles

    Bristle-free Flap minimises contamination and makes cleaning simpler.



  - Easy to clean flat design
  - Maintenance is easier because everything can be performed from below the unit.
  - A long-life filter (maintenance free up to one year) is equipped as standard

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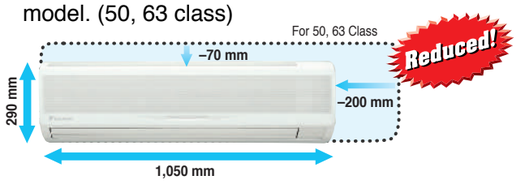
Wall mounted type

FXAQ20MA/FXAQ25MA
FXAQ32MA/FXAQ40MA
FXAQ50MA/FXAQ63MA

Sophisticated design and compact casing harmonised in any interior décor

- Compliant with the RoHS Directive*
- Compact and stylish design that does not detract from the decor of the room.
- More compact when compared with previous model. (50, 63 class)



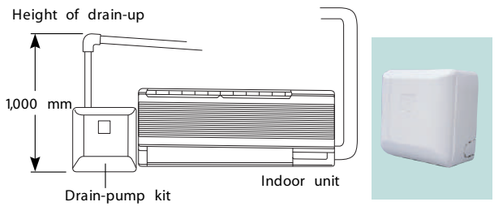
- Drastic 10 kg weight reduction from 24 kg to 14 kg.
- Volume reduced by 22%.
- Space savings of up to 47%.

- Low operating sound (220V-240V)(dB(A))

Class	20	25	32	40	50	63
Operating sound (H/L)	35/29	36/29	37/29	39/34	42/36	46/39

- Drain pan and air filter can be kept clean by mildew-proof polystyrene.
- Washable grille, the front grille can be easily removed for washing.
- Auto-swing maintains efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting; 10˚ for cooling and 70˚ for heating)

- Drain-pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



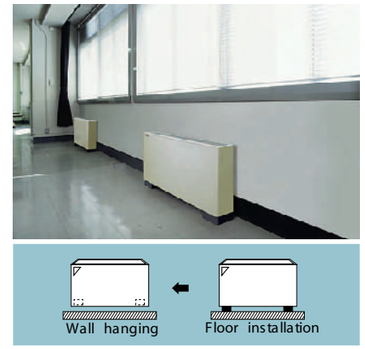
- Flexible installation.
  - Drain pipe can be fitted to from either left or right sides.

Floor standing type

FXLQ20MA/FXLQ25MA/FXLQ32MA
FXLQ40MA/FXLQ50MA/FXLQ63MA

Perfect unit for perimeter zone air conditioning.

- Compliant with the RoHS Directive*
- Floor standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is now easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year) is equipped as standard accessory.

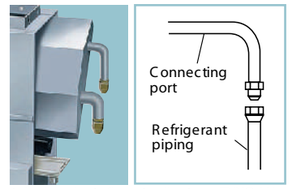


Concealed floor standing type

FXNQ20MA/FXNQ25MA
FXNQ32MA/FXNQ40MA
FXNQ50MA/FXNQ63MA

Perfect unit to be concealed in the skirting-wall of perimeter.

- The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- The connecting port faces downward, greatly facilitating on-site piping work.
- A long-life filter (maintenance free up to one year) is equipped as standard accessory.



* Applies also to floor standing type (FXNQ-MA).

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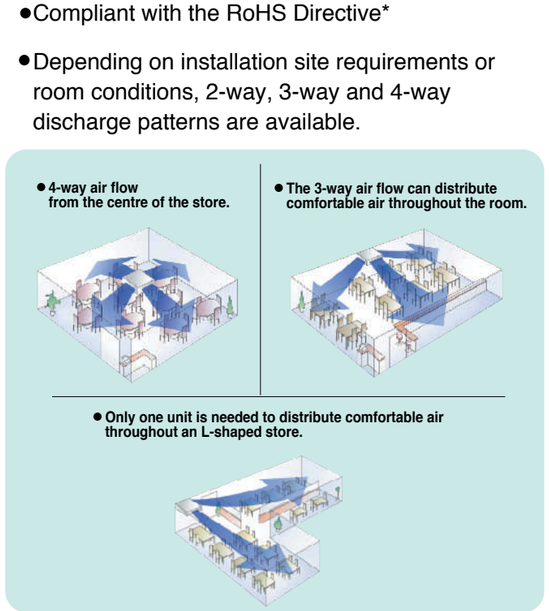
Ceiling suspended cassette type

FXUQ71MAV1/FXUQ100MAV1/ FXUQ125MAV1

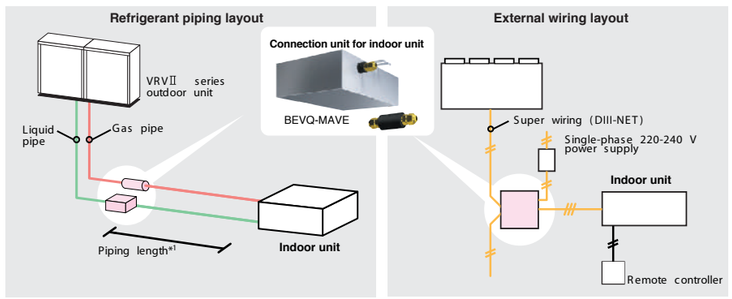
This ultra-thin indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

- Compliant with the RoHS Directive*
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.


● 4-way air flow from the centre of the store.
● The 3-way air flow can distribute comfortable air throughout the room.
● Only one unit is needed to distribute comfortable air throughout an L-shaped store.

Connection unit Connection unit is the device for connecting above indoor units to VRV II.

- Compliant with the RoHS Directive*



*1

Model	Maximum piping length between the BEV unit and the indoor units.
FXUQ-MAV1	5 m

Notes:
- When connecting centralised-control device, it is necessary to install an interface adaptor for an indoor unit (DTA102A52).
- Connection unit BEVQ-MA is necessary for each indoor unit.
- The refrigerant piping height difference between the indoor units and the BEV unit must be within 4 m.
- The BEV unit must be installed within a maximum height difference between indoor units of 15 m.
- Branching of the refrigerant piping is not possible downstream of the BEV unit.

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Specifications

INDOOR UNITS

Ceiling Mounted Cassette <Double flow> Type

MODEL			FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE
Power supply			1 phase, 220-240 V, 50 Hz							
Cooling capacity	kcal/h(*1)		2,000	2,500	3,200	4,000	5,000	6,300	8,000	12,500
	Btu/h(*1)		7,800	9,900	12,600	16,000	19,800	24,900	31,700	49,500
	kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3	9.3	14.5
		(*2)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800
	Btu/h		8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
	kW		2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Casing			Galvanised steel plate							
Air flow rate (Hi/Lo)	m^3/min		7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25
	cfm		247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883
Sound level (Hi/Lo)	dB (A)	220V	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38
		240V	34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40
Dimensions (HxWxD)	mm		305X775X600	305X775X600	305X775X600	305X990X600	305X990X600	305X1,175X600	305X1,665X600	305X1,665X600
Machine weight	kg		26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0
Piping connections	Liquid(Flare)mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5	ϕ9.5
	Gas(Flare)mm		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9
	Drain piping		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYBC32G-W1			BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
	Colour		White (10Y9/0.5)							
Dimensions (HxWxD)	mm		53X1,030X680	53X1,030X680	53X1,030X680	53X1,245X680	53X1,245X680	53X1,430X680	53X1,920X680	53X1,920X680
	weight	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0

Ceiling Mounted Cassette <Multi-flow> Type

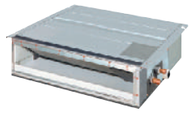
MODEL			FXFQ25MVE	FXFQ32MVE	FXFQ40MVE	FXFQ50MVE	FXFQ63MVE	FXFQ80MVE	FXFQ100MVE	FXFQ125MVE
Power supply			1 phase, 220-240 V, 50 Hz							
Cooling capacity	kcal/h(*1)		2,500	3,200	4,000	5,000	6,300	8,000	10,000	12,500
	Btu/h(*1)		9,900	12,600	16,000	19,800	24,900	31,700	39,600	49,500
	kW	(*1)	2.9	3.7	4.7	5.8	7.3	9.3	11.6	14.5
		(*2)	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capacity	kcal/h		2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
	Btu/h		10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
	kW		3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Casing			Galvanised steel plate							
Air flow rate (Hi/Lo)	m^3/min		13/10	13/10	15/11	16/11	18.5/14	20/15	26/21	30/24
	cfm		459/353	459/353	530/388	565/388	653/494	706/530	918/741	1,059/847
Sound level (Hi/Lo)	dB(A)		30/27	30/27	31/27	32/27	33(34)★/28	36/31	39/33	42(43)★/36
Dimensions (HxWxD)	mm		246X840X840	246X840X840	246X840X840	246X840X840	246X840X840	246X840X840	288X840X840	288X840X840
Machine weight	kg		24.0	24.0	24.0	24.0	25.0	25.0	29.0	29.0
Piping connections	Liquid(Flare)mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5
	Gas(Flare)mm		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9
	Drain piping		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCP125D-W1							
	Colour		White (10Y9/0.5)							
Dimensions (HxWxD)	mm		45x950x950	45x950x950	45x950x950	45x950x950	45x950x950	45x950x950	45x950x950	45x950x950
	weight	kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Note : Specifications are based on the following conditions;
- Cooling : (*1) Indoor temp. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB. (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level : Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
  ★ : The values of Hi mode Sound level represent those during cooling operation.Those during heating operation are shown in brackets for two models only.

Ceiling Mounted Cassette Corner Type

MODEL			FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply			1 phase, 220-240 V, 50 Hz			
Cooling capacity	kcal/h (*1)		2,500	3,200	4,000	6,300
	Btu/h (*1)		9,900	12,600	16,000	24,900
	kW	(*1)	2.9	3.7	4.7	7.3
		(*2)	2.8	3.6	4.5	7.1
Heating capacity	kcal/h		2,800	3,400	4,300	6,900
	Btu/h		10,900	13,600	17,100	27,300
	kW		3.2	4.0	5.0	8.0
Casing			Galvanised steel plate			
Air flow rate (Hi/Lo)	m^3/min		11/9	11/9	13/10	18/15
	cfm		388/318	388/318	459/353	635/530
Sound level (Hi/Lo)	dB (A)	220 V	38/33	38/33	40/34	42/37
		240 V	40/35	40/35	42/36	44/39
Dimensions (H×W×D)	mm		215×1,110×710	215×1,110×710	215×1,110×710	215×1,310×710
Machine weight	kg		31.0	31.0	31.0	34.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 9.5
	Gas(Flare)mm		ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 15.9
	Drain piping		VP25 (External Dia, 32/Internal Dia, 25)			
Panel (Option)	Model		BYK45FJW1			BYK71FJW1
	Colour		White (10Y9/0.5)			
Dimensions (H×W×D)	mm		70×1,240×800	70×1,240×800	70×1,240×800	70×1,440×800
	weight	kg	8.5	8.5	8.5	9.5

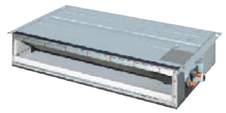
Slim Ceiling Mounted Duct Type (700 mm width type)



MODEL	with drain-up pump		FXDQ20PVE	FXDQ25PVE	FXDQ32PVE
	without drain-up pump		FXDQ20PVET	FXDQ25PVET	FXDQ32PVET
Power supply			1 phase, 220-240 V, 50 Hz		
Cooling capacity	kcal/h (*1)		2,000	2,500	3,200
	Btu/h (*1)		7,800	9,900	12,600
	kW	(*1)	2.3	2.9	3.7
		(*2)	2.2	2.8	3.6
Heating capacity	kcal/h		2,200	2,800	3,400
	Btu/h		8,500	10,900	13,600
	kW		2.5	3.2	4.0
Casing			Galvanised steel plate		
Air flow rate (Hi/Lo)	m^3/min		8.0/6.4	8.0/6.4	8.0/6.4
	cfm		282/226	282/226	282/226
External static pressure	Pa		30-10★1		
Sound level (Hi/Lo)★2★3	dB(A)		33/29	33/29	33/29
Dimensions (H×W×D)	mm		200×700×620	200×700×620	200×700×620
Machine weight	kg		23.0	23.0	23.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ6.4	ϕ6.4
	Gas(Flare)mm		ϕ 12.7	ϕ12.7	ϕ12.7
	Drain piping		VP20 (External Dia, 26/Internal Dia, 20)		

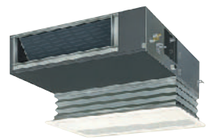
Note : Specifications are based on the following conditions;
- Cooling : (*1) Indoor temp. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB. (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- ★1 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".(Factory setting is 10 Pa.)
- ★2 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB.
- ★3 : Values are based on the following conditions: external static pressure of 10 Pa.
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level **(FXKQ-MA)** Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  (FXDQ-P) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Slim Ceiling Mounted Duct Type (900/1,100 mm width type)



MODEL	with drain-up pump		FXDQ20NAVE	FXDQ25NAVE	FXDQ32NAVE	FXDQ40NAVE	FXDQ50NAVE	FXDQ63NAVE
	without drain-up pump		FXDQ20NVET	FXDQ25NVET	FXDQ32NVET	FXDQ40NVET	FXDQ50NVET	FXDQ63NVET
Power supply			1 phase, 220-240 V, 50 Hz					
Cooling capacity	kcal/h (*1)		2,000	2,500	3,200	4,000	5,000	6,300
	Btu/h (*1)		7,800	9,900	12,600	16,000	19,800	24,900
	kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3
		(*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h		8,500	10,900	13,600	17,100	21,500	27,300
	kW		2.5	3.2	4.0	5.0	6.3	8.0
Casing			Galvanised steel plate					
Air flow rate (Hi/Lo)	m^3/min		9.5/7.5	9.5/7.5	10.5/8.5	10.5/8.5	12.5/10.0	16.5/13.0
	cfm		335/265	335/265	371/300	371/300	441/353	583/459
External static pressure	Pa		44-15★1					
Sound level (Hi/Lo) ★2	dB(A)		33/29	33/29	33/29	34/30	35/31	36/32
Dimensions (H×W×D)	mm		200×900×620	200×900×620	200×900×620	200×900×620	200×900×620	200×1,100×620
Machine weight	kg		26.0	26.0	26.0	27.0	28.0	31.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 9.5
	Gas(Flare)mm		ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 15.9
	Drain piping		VP20 (External Dia, 26/Internal Dia, 20)					

Ceiling Mounted Built-in Type



MODEL			FXSQ20MVE	FXSQ25MVE	FXSQ32MVE	FXSQ40MVE	FXSQ50MVE	FXSQ63MVE	FXSQ80MVE	FXSQ100MVE	FXSQ125MVE
Power supply			1 phase, 220-240 V, 50 Hz								
Cooling capacity	kcal/h (*1)		2,000	2,500	3,200	4,000	5,000	6,300	8,000	10,000	12,500
	Btu/h (*1)		7,800	9,900	12,600	16,000	19,800	24,900	31,700	39,600	49,500
	kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3	9.3	11.6	14.5
		(*2)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
	Btu/h		8,500	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
	kW		2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Casing			Galvanised steel plate								
Air flow rate (Hi/Lo)	m^3/min		9/6.5	9/6.5	9.5/7	11.5/9	15/11	21/15.5	27/21.5	28/22	38/28
	cfm		318/230	318/230	335/247	406/318	530/388	741/547	953/759	988/777	1,341/988
External static pressure	Pa		88-39-20★3	88-39-20★3	64-39-15★3	88-49-20★3	88-59-29★3	88-49-20★3	113-82★4	107-75★4	78-39★4
Sound level (Hi/Lo)	dB(A)	220V	37/32	37/32	38/32	38/32	41/36	42/35	43/37	43/37	46/41
		240V	39/34	39/34	40/34	40/34	43/38	44/37	45/39	45/39	48/43
Dimensions (H×W×D)	mm		300x550x800	300x550x800	300x550x800	300x700x800	300x700x800	300x1,000x800	300x1,400x800	300x1,400x800	300x1,400x800
Machine weight	kg		30.0	30.0	30.0	30.0	31.0	41.0	51.0	51.0	52.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 9.5	ϕ 9.5	ϕ 9.5	ϕ 9.5
	Gas(Flare)mm		ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 15.9	ϕ 15.9	ϕ 15.9	ϕ 15.9
	Drain piping		VP25 (External Dia, 32/Internal Dia, 25)								
Panel (Option)	Model		BYBS32DJW1	BYBS32DJW1	BYBS32DJW1	BYBS45DJW1	BYBS45DJW1	BYBS71DJW1	BYBS125DJW1	BYBS125DJW1	BYBS125DJW1
	Colour		White (10Y9/0.5)								
Dimensions (H×W×D)	mm		55x650x500	55x650x500	55x650x500	55x800x500	55x800x500	55x1,100x500	55x1,500x500	55x1,500x500	55x1,500x500
	weight	kg	3.0	3.0	3.0	3.5	3.5	4.5	6.5	6.5	6.5

Note : Specifications are based on the following conditions;
- Cooling : (*1) Indoor temp. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- ★1 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".(Factory setting is 15Pa)
- ★2 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB.
- ★3 : External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard-Low static pressure".
- ★4 : External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level **(FXDQ-N(A))** Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  (FXSQ-M) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Duct Type

MODEL			FXMQ40MAVE	FXMQ50MAVE	FXMQ63MAVE	FXMQ80MAVE	FXMQ100MAVE	FXMQ125MAVE	FXMQ200MAVE	FXMQ250MAVE
Power supply			1 phase, 220-240 V, 50 Hz							
Cooling capacity	kcal/h (*1)		4,000	5,000	6,300	8,000	10,000	12,500	19,800	24,800
	Btu/h (*1)		16,000	19,800	24,900	31,700	39,600	49,500	78,500	98,300
	kW	(*1)	4.7	5.8	7.3	9.3	11.6	14.5	23.0	28.8
		(*2)	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28.0
Heating capacity	kcal/h		4,300	5,400	6,900	8,600	10,800	13,800	21,500	27,000
	Btu/h		17,100	21,500	27,300	34,100	42,700	54,600	85,300	107,500
	kW		5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5
Casing			Galvanised steel plate							
Air flow rate (Hi/Lo)	m^3/min		14/11.5	14/11.5	14/11.5	19.5/16	29/23	36/29	58/50	72/62
	cfm		494/406	494/406	494/406	688/565	1,024/812	1,271/1,024	2,047/1,765	2,542/2,189
External static pressure	Pa		157-118 ★1	157-118 ★1	157-118 ★1	157-108 ★1	157-98 ★1	191-152 ★1	221-132 ★1	270-147 ★1
Sound level (Hi/Lo)	dB (A)	220V	39/35	39/35	39/35	42/38	43/39	45/42	48/45	48/45
		240V	41/37	41/37	41/37	44/40	45/41	47/44	49/46	49/46
Dimensions (H×W×D)	mm		390×720×690	390×720×690	390×720×690	390×720×690	390×1,110×690	390×1,110×690	470×1,380×1,100	470×1,380×1,100
Machine weight	kg		44.0	44.0	44.0	45.0	63.0	65.0	137.0	137.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 6.4	ϕ 9.5	ϕ 9.5	ϕ 9.5	ϕ 9.5	ϕ 9.5	ϕ 9.5 ★1
	Gas(Flare)mm		ϕ 12.7	ϕ 12.7	ϕ 15.9	ϕ 15.9	ϕ 15.9	ϕ 15.9	ϕ19.1(Brazing)	ϕ22.2(Brazing)
	Drain piping		VP25 (External Dia, 32/Internal Dia, 25)						PS1B	

Ceiling Suspended Type

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply			1 phase, 220-240 V, 50 Hz		
Cooling capacity	kcal/h (*1)		3,200	6,300	10,000
	Btu/h (*1)		12,600	24,900	39,600
	kW	(*1)	3.7	7.3	11.6
		(*2)	3.6	7.1	11.2
Heating capacity	kcal/h		3,400	6,900	10,800
	Btu/h		13,600	27,300	42,700
	kW		4.0	8.0	12.5
Casing			White (10Y9/0.5)		
Air flow rate (Hi/Lo)	m^3/min		12/10	17.5/14	25/19.5
	cfm		424/353	618/494	883/688
Sound level (Hi/Lo)	dB(A)		36/31	39/34	45/37
Dimensions (H×W×D)	mm		195×960×680	195×1,160×680	195×1,400×680
Machine weight	kg		24.0	28.0	33.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 9.5	ϕ 9.5
	Gas(Flare)mm		ϕ 12.7	ϕ 15.9	ϕ 15.9
	Drain piping		VP20 (External Dia, 26/Internal Dia, 20)		

Note : Specifications are based on the following conditions;
- Cooling : (*1) Indoor temp. of 27ºCDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- ★1 : External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level : **(FXMQ-MA)** Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  (FXHQ-MA) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Wall Mounted Type

MODEL			FXAQ20MAVE	FXAQ25MAVE	FXAQ32MAVE	FXAQ40MAVE	FXAQ50MAVE	FXAQ63MAVE
Power supply			1 phase, 220-240 V, 50 Hz					
Cooling capacity	kcal/h (*1)		2,000	2,500	3,200	4,000	5,000	6,300
	Btu/h (*1)		7,800	9,900	12,600	16,000	19,800	24,900
	kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3
		(*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h		8,500	10,900	13,600	17,100	21,500	27,300
	kW		2.5	3.2	4.0	5.0	6.3	8.0
Casing			White (3.0Y8.5/0.5)					
Air flow rate (Hi/Lo)	m^3/min		7.5/4.5	8/5	9/5.5	12/9	15/12	19/14
	cfm		265/159	282/177	318/194	424/318	530/424	671/494
Sound level (Hi/Lo)	dB(A)		35/29	36/29	37/29	39/34	42/36	46/39
Dimensions (H×W×D)	mm		290×795×230	290×795×230	290×795×230	290×1,050×230	290×1,050×230	290×1,050×230
Machine weight	kg		11.0	11.0	11.0	14.0	14.0	14.0
Piping connections	Liquid(Flare)mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas(Flare)mm		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain piping		VP13 (External Dia, 18/Internal Dia, 13)					

Floor Standing Type/Concealed Floor Standing Type

FXLQ

FXNQ

MODEL			FXLQ20MAVE / FXNQ20MAVE	FXLQ25MAVE / FXNQ25MAVE	FXLQ32MAVE / FXNQ32MAVE	FXLQ40MAVE / FXNQ40MAVE	FXLQ50MAVE / FXNQ50MAVE	FXLQ63MAVE / FXNQ63MAVE
Power supply			1 phase, 220-240 V, 50 Hz					
Cooling capacity	kcal/h (*1)		2,000	2,500	3,200	4,000	5,000	6,300
	Btu/h (*1)		7,800	9,900	12,600	16,000	19,800	24,900
	kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3
		(*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h		8,500	10,900	13,600	17,100	21,500	27,300
	kW		2.5	3.2	4.0	5.0	6.3	8.0
Casing			FXLQ:Ivory white (5Y7.5/1) / FXNQ:Galvanised steel plate					
Air flow rate (Hi/Lo)	m^3/min		7/6	7/6	8/6	11/8.5	14/11	16/12
	cfm		247/212	247/212	282/212	388/300	494/388	565/424
Sound level (Hi/Lo)	dB (A)	220V	35/32	35/32	35/32	38/33	39/34	40/35
		240V	37/34	37/34	37/34	40/35	41/36	42/37
Dimensions (H×W×D)	mm	FXLQ	600x1,000x222	600x1,000x222	600x1,140x222	600x1,140x222	600x1,420x222	600x1,420x222
		FXNQ	610x930x220	610x930x220	610x1,070x220	610x1,070x220	610x1,350x220	610x1,350x220
Machine weight	kg	FXLQ	25.0	25.0	30.0	30.0	36.0	36.0
		FXNQ	19.0	19.0	23.0	23.0	27.0	27.0
Piping connections	Liquid(Flare)mm		ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 9.5
	Gas(Flare)mm		ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 15.9
	Drain piping		ϕ 21O.D.					

Note : Specifications are based on the following conditions ;
- Cooling : (*1) Indoor temp. of 27ºCDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level : **(FXAQ-MA)** Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  (FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

INDOOR UNITS

Connection unit series indoor units

* A type of BEV unit is necessary for each Connection unit series indoor unit. Refer to the Engineering Data for details.
* If indoor units from the Connection unit series are connected within a single refrigerant system to indoor units from any other series, cooling/heating switchover will not be possible using the remote controller of the Connection unit series indoor units. However, if the remote controller of an indoor unit from the other series is set as a master remote controller, cooling/heating switchover will be possible.
* If all indoor units are from the Connection unit series, an outdoor unit Cool/Heat selector will be needed to enable cooling/heating switchover.
* If connecting to the BS unit within a Heat Recovery system, switching between cooling and heating is possible from remote controller (only for FXUQ-MA).
* Group control between Connection Unit series equipment within one system is possible. However, group control with the other VRV II indoor units is not possible.

Ceiling suspended cassette type

Model				FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
Indoor unit				BEVQ71MAVE	BEVQ100MAVE	BEVQ125MAVE
Power supply				1 phase, 220-240 V, 50 Hz		
Cooling capacity			Kcal/h(*1)	7,100	10,000	12,500
			Btu/h(*1)	28,300	39,600	49,500
		kW	(*1)	8.3	11.6	14.5
			(*2)	8.0	11.2	14.0
Heating capacity (Max.)			Kcal/h	7,700	10,800	12,000
			Btu/h	30,700	42,700	47,800
			kW	9.0	12.5	14.0
Indoor unit	Casing			White (10Y9/0.5)		
	Air flow rate (H/L)		m³/min	19/14	29/21	32/23
			cfm	671/494	1,024/741	1,130/812
	Sound level (230 V)		dBA	40/35	43/38	44/39
	Dimensions (HXWXD)		mm	165×895×895	230×895×895	230×895×895
	Machine weight		kg	25	31	31
Piping connections	Liquid		mm	φ 9.5 (Flare)		
	Gas			φ15.9 (Flare)		
	Drain piping			VP 20 (External Dia. 26/Internal Dia. 20)		

Note : Specifications are based on the following conditions ;
- Cooling : (*1) Indoor temp. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating : Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- Equivalent piping length : 7.5 m
- Level difference : 0 m
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for details.)
- Sound level : **(FXUQ-MA)** Anechoic chamber conversion value, measured at a point 1.5 m below the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

OUTSIDE UNITS

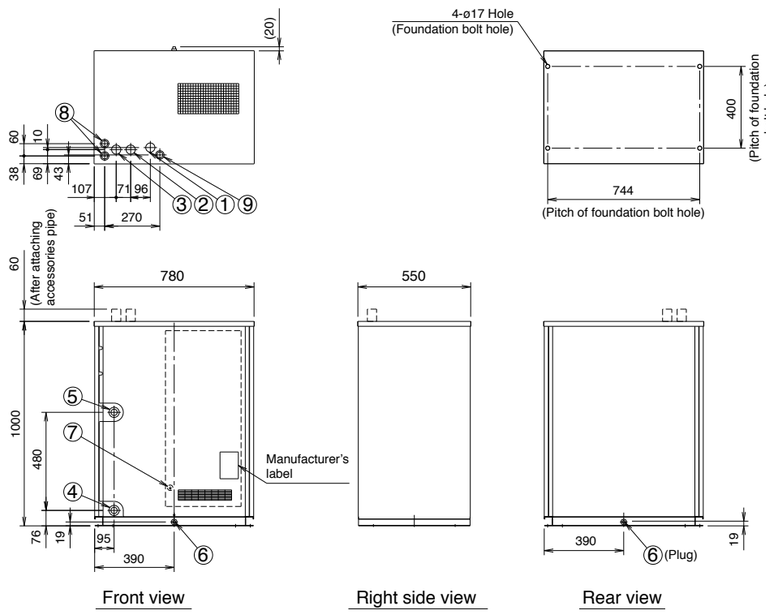
Model name				RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Independent units				RWEYQ10MY1	RWEYQ10MY1	RWEYQ10MY1
				—	RWEYQ10MY1	RWEYQ10MY1
				—	—	RWEYQ10MY1
Power supply				3 phase, 380–415 V, 50 Hz		
Cooling capacity	kcal/h(*1)			23,200	46,400	69,600
	Btu/h(*1)			92,100	184,200	276,300
	kW		(*1)	27.0	54.0	81.0
			(*2)	26.7	53.4	80.1
Heating capacity (*3)	kcal/h			27,000	54,000	81,000
	Btu/h			107,500	215,000	322,500
	kW			31.5	63.0	94.5
Casing colour				Ivory white (5Y7.5/1)		
Dimentions: (H × W × D)			mm	1,000 × 780 × 550	(1,000 × 780 × 550) × 2	(1,000 x 780 x 550) × 3
Heat exchanger				Stainless steel plate type		
Compressor	Type			Hermatically sealed scroll type		
	Piston displacement		m³/h	14.61	(14.61) x 2	(14.61) x 3
	Number of revolutions		r.p.m.	6,900	(6,900) x 2	(6,900) x 3
	Motor output x number of units		kW	4.2	(4.2) x 2	(4.2) x 3
	Starting method			Soft start		
Connecting pipes	Liquid pipe		mm	9.5 C1220T (Flare)	15.9 C1220T (Flare)	19.1 C1220T (Flare)
	Suction gas pipe ★1		mm	22.2 C1220T (Brazing)	28.6 C1220T (Brazing)	34.9 C1220T (Brazing) ★4
	Discharge gas pipe		mm	ø19.1 C1220T ★2, ø22.2 C1220T ★3 (Brazing)	ø22.2 C1220T ★2, ø28.6 C1220T ★3 (Brazing)	ø28.6 C1220T ★2, ø34.9 C1220T ★3 (Brazing)
Water piping	Water inlet			PT1 1/4B internal thread		
	Water outlet			PT1 1/4B internal thread		
	Drain outlet			PS1/2B internal thread		
Machine weight (Operating weight)			kg	150 (152)	150 + 150 (152 + 152)	150 + 150 + 150 (152 + 152 + 152)
Operating sound				51	54	56
Safety devices				High pressure switch, Inverter overload protector, Fusible plugs		
Capacity control			%	23–100	11–100	8–100
Refrigerant	Refrigerant name			R410A		
	Charge		kg	5.2	5.2 + 5.2	5.2 + 5.2 + 5.2
	Control			Electronic expansion valve		
Refrigerant oil				Refer to the compressor name plate.		
Standard accessories				Installation manual, Operation manual, Connection pipes, Cramps		

Notes: 1 Specifications are based on the following conditions;
- Cooling : (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C
  (*2) Indoor temp.: 27°CDB, 19.0°CWB/inlet water temp.: 30°C
- Heating :(*3) Indoor temp.: 20°CDB/inlet water temp.: 20°C
- (*1)(*2)(*3) Equivalent piping length: 7.5 m, level difference 0 m.

2 ★1. In the case of heat pump system, suction gas pipe is not used.
★2. In the case of heat recovery system.
★3. In the case of heat pump system.
★4. Basically ø31.8, but use ø34.9 for availability of oversea market.
3 This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
4 Ambient temperature at 0–40°C. Heat rejection from the casing: 0.71 kW/10 HP.
5 Connectable to closed type cooling tower only.

•Be sure to refer to the Engineering Data for facility design.

Dimensions



Notes)
1. Earth terminal is in the switch box.
2. Piping size is as follows.

Model	RWEYQ10MY1	
Operation system	Heat pump	Heat recovery
Liquid pipe	ø9.5	ø9.5
Suction gas pipe		ø22.2
Discharge gas pipe	ø22.2	ø19.1

* Connection method Liquid pipe: Flare connection
  Suction gas pipe: Brazing connection
  Discharge gas pipe: Brazing connection
* In the case of heat pump system, suction gas pipe is not used.

Item	Part name	Remark
9	Wiring through hole	ø29
8	Power cord through hole	ø29
7	Earth terminal	M5
6	Drain outlet	PS 1/2B internal thread
5	Water outlet	PT1 1/4B internal thread
4	Water inlet	PT1 1/4B internal thread
3	Discharge gas pipe	See Note) 2.
2	Suction gas pipe	See Note) 2.
1	Liquid pipe	See Note) 2.

Option List

INDOOR UNITS

Ceiling mounted cassette type (Double flow type)

No.	Item / Type		FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M
1	Decoration Panel		BYBC32G-W1	BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
2	Filter related	High efficiency filter 65% ★1	KAFJ532G36	KAFJ532G56		KAFJ532G80	KAFJ532G160	
		High efficiency filter 90% ★1	KAFJ533G36	KAFJ533G56		KAFJ533G80	KAFJ533G160	
		Filter chamber bottom suction	KDDFJ53G36	KDDFJ53G56		KDDFJ53G80	KDDFJ53G160	
		Long life replacement filter	KAFJ531G36	KAFJ531G56		KAFJ531G80	KAFJ531G160	

Note: ★1 Filter chamber is required if installing high efficiency filter.

Ceiling mounted super cassette type (Multi flow type)

No.	Item / Type		FXFQ25M	FXFQ32M	FXFQ40M	FXFQ50M	FXFQ63M	FXFQ80M	FXFQ100M	FXFQ125M
1	Decoration Panel		BYCP125D-W1							
2	Sealing member of air discharge outlet		KDBH55D160W							
3	Panel spacer		KDBP55H160WA							
4	Filter related	High efficiency filter unit 65%	KAFP556D80						KAFP556D160	
		High efficiency filter unit 90%	KAFP557D80						KAFP557D160	
		Replacement high efficiency filter 65%	KAFP552H80						KAFP552H160	
		Replacement high efficiency filter 90%	KAFP553H80						KAFP553H160	
		Filter chamber	KDDFP55D160							
		Long life replacement filter Non-woven type	KAFJ551C160							
		Ultra long-life filter	KAFP55D160							
		Replacement ultra long-life filter	KAFJ55K160H							
5	Fresh air intake kit	Chamber type Without T shape and fan	KDDP55D160							
		Chamber type With T shape without fan	KDDP55D160K							
		Direct installation type	KDDJ55X160							
6	Branch duct chamber		KDP55D80						KDP55D160	
7	Chamber connection kit		KKSJ55K160							
8	Insulation kit for high humidity		KDT-55D80						KDT-55D160	

Ceiling mounted cassette corner type

No.	Item / Type		FXKQ25MA,FXKQ32MA,FXKQ40MA	FXKQ63MA
1	Panel related	Decoration Panel	BYK45FJW1	BYK71FJW1
		Panel Spacer	KPBJ52F56W	KPBJ52F80W
2	Air inlet and air discharge outlet related	Long life replacement filter	KAFJ521F56	KAFJ521F80
		Air discharge grille	K-HV7AW	K-HV9AW
		Air discharge blind panel	KDBJ52F56W	KDBJ52F80W
		Flexible duct (with shutter)	KFDJ52F56	KFDJ52F80

Slim ceiling mounted duct type (700 mm width type★1)

No.	Item / Type	FXDQ20P,FXDQ25P,FXDQ32P
1	Insulation kit for high humidity	KDT25N32

Note: ★1 For without drain-up pump type only.

Slim ceiling mounted duct type (900/1,100 mm width type★1)

No.	Item / Type	FXDQ20N,FXDQ25N,FXDQ32N,FXDQ40N,FXDQ50N	FXDQ63N
1	Insulation kit for high humidity	KDT25N50	KDT25N63

Note: ★1 For without drain-up pump type only.

INDOOR UNITS

Ceiling mounted built-in type

No.	Item / Type			FXSQ20M FXSQ25M FXSQ32M	FXSQ40M FXSQ50M	FXSQ63M	FXSQ80M FXSQ100M	FXSQ125M
1	Panel related	Decoration Panel		BYBS32DJW1	BYBS45DJW1	BYBS71DJW1	BYBS125DJW1	
		Access panel		KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
2	★1 Auxiliary electric heater	Model	(220V–240V)	KEA25K32VE	KEA25K50VE	KEA25K63VE	KEA25K100VE	KEA25K125VE
		Capacity	kW	0.75	1.2	1.4	2.1	2.8
3	Filter related	★2 High efficiency filter 65%		KAFJ252L36	KAFJ252L56	KAFJ252L80	KAFJ252L160	
		★2 High efficiency filter 90%		KAFJ253L36	KAFJ253L56	KAFJ253L80	KAFJ253L160	
		Long life replacement filter		KAFJ251K36	KAFJ251K56	KAFJ251K80	KAFJ251K160	
		Filter chamber	For bottom suction	KAJ25L36D	KAJ25L56D	KAJ25L80D	KAJ25L160D	
		Filter chamber	For rear suction	KAJ25L36B	KAJ25L56B	KAJ25L80B	KAJ25L160B	
4	Air inlet and air discharge outlet related	Air suction canvas		KSA-25K36	KSA-25K56	KSA-25K80	KSA-25K160	
		Screening door		KBBJ25K36	KBBJ25K56	KBBJ25K80	KBBJ25K160	
		Air suction flange		KDJ2507K36	KDJ2507K56	KDJ2507K80	KDJ2507K160	
		Air discharge adaptor		KDAJ25K36	KDAJ25K56	KDAJ25K71	KDAJ25K140	
5	Natural evaporating pan type humidifier ★1			KNM25K32V1	KNM25K50V1	KNM25K63V1	KNM25K125V1	

Note: ★1 One adaptor for wiring (KRP1B61) per indoor unit is required if installing an electric heater or a natural evaporating pan type humidifier.
An electric heater cannot be used for VRV system cooling only.
★2 If installing a high filter in the ceiling mounted built-in type, an assembly chamber for either bottom or rear suction is required.

Ceiling mounted duct type

No.	Item / Type		FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
1	Drain pump kit		KDU-30L125VE						KDU30L250VE	
2	High efficiency filter	65%	KAFP372A80				KAFP372A160		KAFJ372L280	
		90%	KAFP373A80				KAFP373A160		KAFJ373L280	
3	Filter chamber		KDDFP37A80				KDDFP37A160		KDJ3705L280	
4	Long life replacement filter		KAFP371A80				KAFP371A160		KAFJ371L280	

Ceiling suspended type

No.	Item / Type	FXHQ32MA	FXHQ63MA	FXHQ100MA
1	Drain pump kit	KDU50M60VE	KDU50M125VE	
2	Replacement long-life filter (Resin net)	KAFJ501D56	KAFJ501D80	KAFJ501D112
3	L-type piping kit (for upward direction)	KHFP5M35	KHFP5M63	

Wall mounted type

No.	Item / Type	FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
1	Drain pump kit	K-KDU572CVE					

Floor standing type

No.	Item / Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter	KAFJ361K28		KAFJ361K45		KAFJ361K71	

Concealed floor standing type

No.	Item / Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter	KAFJ361K28		KAFJ361K45		KAFJ361K71	

Ceiling suspended cassette type

No.	Item / Type	FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
1	Replacement long-life filter	KAFJ495F140		
2	Sealing member of air discharge outlet (*1)	KDBHJ49F80	KDBHJ49F140	
3	Decoration panel for air discharge	KDBTJ49F80	KDBTJ49F140	
4	Vertical flap kit	KDGJ49F80	KDGJ49F140	
5	L-shape piping kit	KHFP49M140		

Note: (*1): This option is necessary for setting up 2-way (opposing directional) air flow when the air conditioner is installed.

BS UNITS for Heat Recovery

MODEL			BSVQ100MV1	BSVQ160MV1	BSVQ250MV1★4
Power supply			1 phase, 220-240V, 50Hz		
Total capacity index of connectable indoor units			100 or less	More than 100 but 160 or less	More than 160 but 250 or less
No. of Connectable Indoor Units			Max. 5	Max. 8	Max. 5
Casing			Galvanised steel plate		
Dimensions (HxWxD)		mm	185x310x280	185x310x280	185x310x280
Piping connections	Indoor Unit	Liquid mm	ϕ9.5 (Flare)★1	ϕ9.5 (Flare)	ϕ9.5 (Flare)
		Gas mm	ϕ15.9 (Flare)★1	ϕ15.9 (Flare)	ϕ22.2 (Flange)★2
	Outdoor Unit	Liquid mm	ϕ9.5 (Flare)★1	ϕ9.5 (Flare)	ϕ9.5 (Flare)
		Suction gas mm	ϕ15.9 (Flare)★1	ϕ15.9 (Flare)	ϕ22.2 (Flange)★2
		Discharge gas mm	ϕ12.7 (Flare)★1	ϕ12.7 (Flare)	ϕ19.1 (Brazing)★3
Machine weight		kg	9.0	9.0	10.0

Note: ★1 If the total capacity of all indoor units connected to the system is less than 7.1 kW, connect the attached pipe to the field pipe.
(Braze the connection between the attached pipe and field pipe.)
★2 Use the field flanged pipe. Also, with a 200 class indoor unit, connect the attached reducer to the field pipe.
(Braze the connection between the attached pipe and field pipe.)
★3 Use the attached pipe.
★4 The indoor unit size of 20, 25, 32, 40 can not be connected to BSVQ250MV1.

OUTSIDE UNITS

Optional accessories \ Model		RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Cool/heat selector		KRC19-26A		
Fixing box		KJB111A		
Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)
	REFNET joint	KHRP25M22T, KHRP25M33T, KHRP26M22T, KHRP26M33T	KHRP25M22T, KHRP25M33T, KHRP25M72T, KHRP26M22T, KHRP26M33T, KHRP26M72T	KHRP25M22T,KHRP25M33T, KHRP25M72T, KHRP25M73T, KHRP26M22T, KHRP26M33T, KHRP26M72T, KHRP26M73T
Outdoor unit multi connection piping kit	For heat pump	—	BHFP22MA56	BHFP22MA84
	For heat recovery	—	BHFP26MA56	BHFP26MA84
External control adaptor		DTA104A62		
Strainer kit		BWU26A15, BWU26A20		

Note: In the case of heat recovery system, cool/heat selector cannot be connected.

Strainer kit specifications

Model		BWU26A15	BWU26A20
Pressure resistance	MPa	1.47	1.96
Mesh size		50	50
Connection diameter		PT1 1/4B internal thread	PT1 1/4B internal thread

Operation control system optional accessories

No.	Item	Type		FXCQ-M	FXFQ-M	FXKQ-MA	FXDQ-P FXDQ-N(A)	FXSQ-M	FXMQ-MA	FXHQ-MA	FXAQ-MA	FXLQ-MA FXNQ-MA	FXUQ-MA
1	Remote controller	Wireless	H/P	BRC7C62	BRC7E61W	BRC4C61	BRC4C62	BRC4C62	BRC4C62	BRC7E63W	BRC7E618	BRC4C62	BRC7C528W
		Wired		BRC1C62									
2	Wired remote controller with weekly schedule timer			BRC1D61									
3	Simplified remote controller (Exposed type)			–			BRC2C51			–		BRC2C51	–
4	Remote controller for hotel use (Concealed type)			–			BRC3A61			–		BRC3A61	–
5	Adaptor for wiring			★KRP1B61	★ KRP1B59	KRP1B61	★ KRP1B56	KRP1B61		KRP1B3	–	KRP1B61	–
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A61	★ KRP2A62	KRP2A61	★ KRP2A53	KRP2A61		★ KRP2A62	★ KRP2A61	KRP2A61	★ KRP2A62
6-2	Wiring adaptor for electrical appendices (2)			★KRP4A51	★ KRP4A53	KRP4A51	★ KRP4A54	KRP4A51		★ KRP4A52	★ KRP4A51	KRP4A51	★ KRP4A53
7	Remote sensor			KRCS01-1	–	KRCS01-1							
8	Installation box for adaptor PCB☆			Note 2,3 KRP1B96	Note 2,3 KRP1D98	–	Note 4,6 KRP1B101	Note 5 KRP4A91	–	Note 3 KRP1C93	Note 2,3 KRP4A93	–	KRP1B97
9	External control adaptor for outdoor unit (Must be installed on indoor units)			★DTA104A61	★DTA104A62	DTA104A61	★ DTA104A53	DTA104A61		★DTA104A62	★ DTA104A61	DTA104A61	–

Note: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.

System configuration

No.	Part name		Model No.	Function
1	Central remote controller		Note 2. DCS302CA61	•Up to 64 groups of indoor units (128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
1-1	Electrical box with earth terminal (3 blocks)		KJB311A	
2	Unified ON/OFF controller		Note 2 DCS301BA61	•Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
2-1	Electrical box with earth terminal (2 blocks)		KJB212A	
2-1	Noise filter (for electromagnetic interface use only)		KEK26-1	
3	Schedule timer		Note 2 DST301BA61	•Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
4	Interface adaptor for SkyAir-series	For SkyAir, FD(Y)M-FA, FDY-KA FDYB-KA, FVY(P)J-A, FXUQ-MA	★DTA102A52	•Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
5	Central control adaptor kit	For UAT(Y)-K(A),FD-K	★DTA107A55	
6	Wiring adaptor for other air-conditioner		★DTA103A51	
7	DIII-NET Expander Adaptor		DTA109A51	•Up to 1024 units can be centrally controlled in 64 different groups. •Wiring restrictions (max. lengh: 1,000 m, total wring lengh: 2,000 m, max. number of branches: 16) apply to each adaptor.
7-1	Mounting plate		KRP4A92	•Fixing plate for DTA109A51

Notes: 1. Installation box for ★adaptor must be procured on site.
2. For FXUQ-MAV1, an interface adaptor (DTA102A52) for the SkyAir series is necessary.

Building management system

No.	Part name					Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller		DCS601C51	•Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option	Hardware	DIII-NET plus adaptor		DCS601A52	•Additional 64 groups (10 outdoor units) is possible.
1-2			Software	P. P. D.		DCS002C51	•P. P. D.: Power Proportional Distribution function
1-3				Web		DCS004A51	•Monitors and controls the air conditioning system using the Internet and a Web browser application on a PC.
1-4	Electrical box with earth terminal (4 blocks)					KJB411A	•Wall embedded switch box.
2	intelligent Manager III	Basic	Hardware	Number of units to be connected	128 units	DAM602B52	•Air conditioner management system that can be controlled by personal computers.
					256 units	DAM602B51	
					512 units	DAM602B51×2	
					768 units	DAM602B51×3	
					1024 units	DAM602B51×4	
2-1		Option	Software		P.P.D.	DAM002A51	•Power Proportional Distribution function
2-2					Web	DAM004A51	•Monitors and controls the air conditioning system using the Internet and a Web browser application on a PC.
2-3					Eco	DAM003A51	•ECO (Energy saving functions.)
2-4	Optional DIII Ai unit					DAM101A51	•External temperature sensor for intelligent Manager III.
2-5	Di unit					DEC101A51	•16 points. 8 pairs based on a pair of On/Off input and abnormality input.
2-6	Dio unit					DEC102A51	•8 points. 4 pairs based on a pair of On/Off input and abnormality input.
3	Communication line	*1 Interface for use in BACnet®				DMS502B51	•Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
3-1		Optional DIII board				DAM411B51	•Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2		Optional Di board				DAM412B51	•Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4		*2 Interface for use in LONWORKS®				DMS504B51	•Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LONWORKS® communication.
5	Contact/analogue signal	Parallel interface Basic unit				DPF201A51	•Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units.
6		Temperature measurement units				DPF201A52	•Enables temperature measurement output for 4 groups; 0-5VDC.
7		Temperature setting units				DPF201A53	•Enables temperature setting input for 16 groups; 0-5VDC.
8		Unification adaptor for computerised control				★ DCS302A52	•Interface between the central monitoring board and central control units.

Note : *1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*2. LONWORKS® is a registered trade mark of Echelon Corporation.
*3. Installation box for ★adaptor must be procured on site.

HRV *Heat Reclaim Ventilation*

The HRV Creates a High-Quality Environment by Interlocking with the Air Conditioner

- Improved Enthalpy Efficiency★1
- Higher External Static Pressure★2
- Enhanced Energy Saving Functions

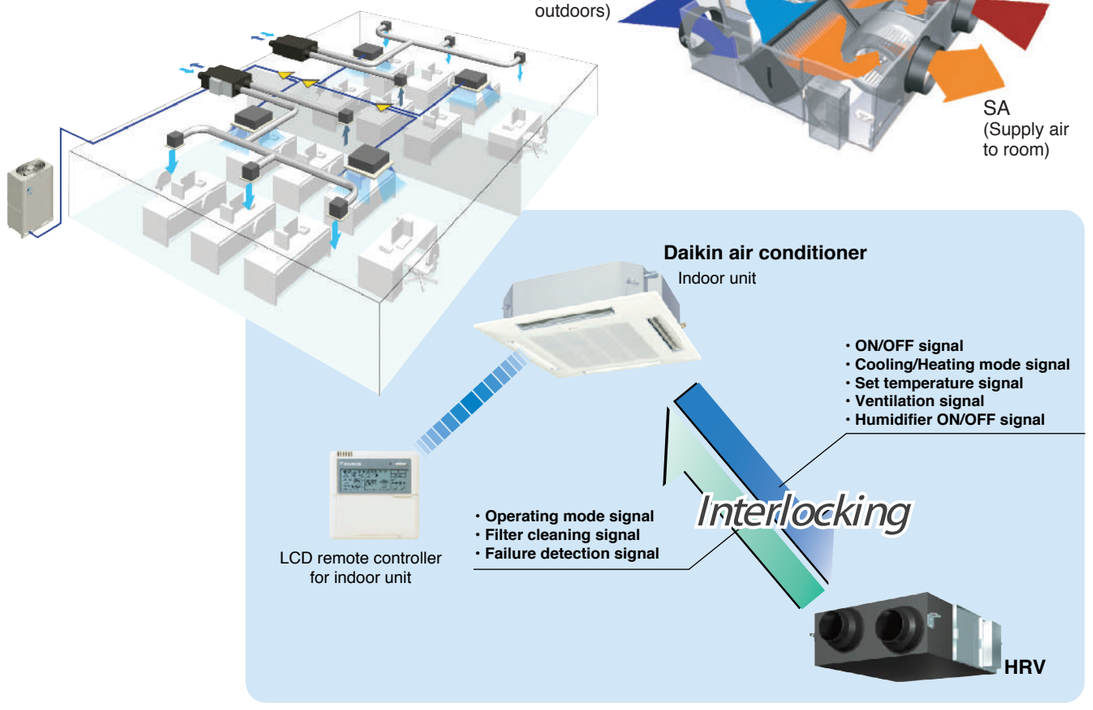
Model Numbers

VAM150GJVE, VAM250GJVE, VAM350GJVE, VAM500GJVE, VAM650GJVE, VAM800GJVE, VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

This new series provides higher enthalpy efficiency★1, due to the greatly enhanced performance of the new ultra-thin film element. Furthermore, improved external static pressure★2 offers more flexibility for installation. Along with these three outstanding improvements, Daikin's exclusive function—nighttime free cooling operation—contributes to energy conservation and more comfortable space.

★1 For models: VAM150/250/350/650/800/1000/2000GJVE
★2 For models: VAM150/350/500GJVE

●Compliant with the RoHS Directive*



Compact Equipment

With a height of just 306 mm, the unit easily fits in limited spaces, such as above ceilings.

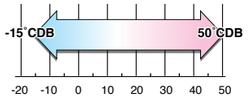
**For VAM500GJVE

Energy Conservation

Air conditioning load reduced by approximately 30%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



* RoHS Directive: The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

Air conditioning load reduced by approximately 30%!

Total heat exchange ventilation — 20%

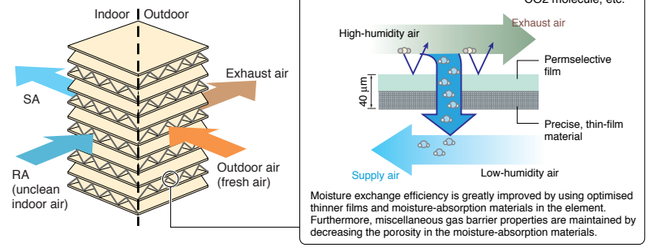
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

Enthalpy efficiency drastically improved by employing newly developed ultra-thin film element! (VAM-GJ model)

Due to the thinner film…
- Decreases the moisture resistance of the partition sheets drastically.
- Realises more space for extra layers in the element, resulting in increased effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet **40 μm**



Moisture exchange efficiency is greatly improved by using optimised thinner films and moisture-absorption materials in the element. Furthermore, miscellaneous gas barrier properties are maintained by decreasing the porosity in the moisture-absorption materials.

+

Auto-ventilation Mode Changeover Switching — 8%

Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

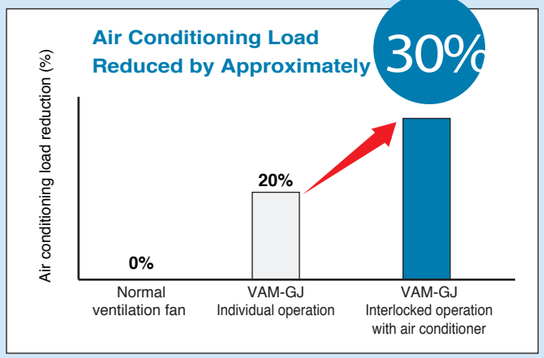
+

Pre-cool, Pre-heat Control — 2%

Reduces air conditioning load by not running the HRV while air is still clean soon after the air conditioner is turned ON.

=

Air Conditioning Load Reduced by Approximately 30%



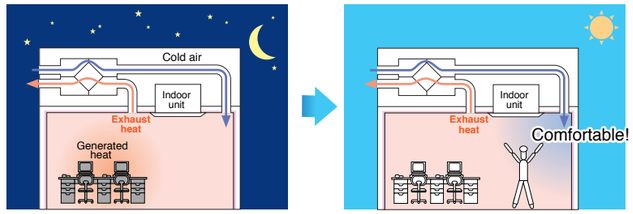
- The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.
- The air conditioning load reduction values are based on the following conditions;
  Application: Tokyo office building
  Building form: 2 floors above ground, 6 floors underground, floor area 2,100 m²
  Personnel density: 0.25 person/m²
  Ventilation volume: 25 m³/h
  Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH
  Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
  Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

Nighttime free cooling operation*1

Nighttime free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room temperature, nighttime free cooling operation reduces the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night.

Air conditioning sensible heat load reduced by approx. 5%!*2

The indoor accumulated heat is discharged at night.
This reduces the air conditioning load the next day thereby increasing efficiency.



*Interlocked operation with an air conditioner

- Nighttime free cooling operation only works to cool and if connected to Building Multi or VRV systems.
- Nighttime free cooling operation is set to "off" in the factory settings, so if you wish to use it, request your dealer to turn it on.

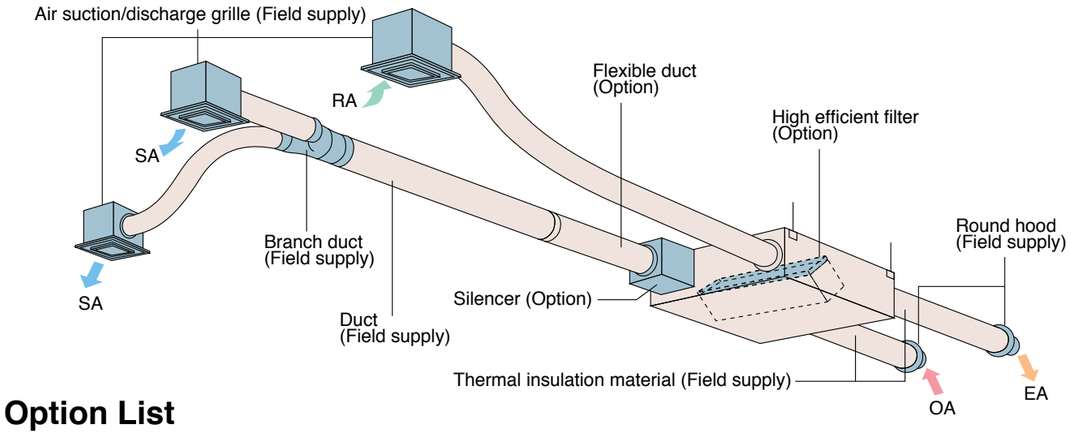
*1 This function can be operated only when interlocked with air conditioners.
*2 Value is based on the following conditions:
- Cooling operation performed from April to October.
- Calculated for air conditioning sensible heat load only (latent heat load not included).

SPECIFICATIONS

Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Power Supply			VE: 1 phase, 220-240V/ 220V,50Hz/ 60Hz								
Temp. Exchange Efficiency (%) [50Hz/60Hz]		Ultra-High	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77
		High	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77
		Low	84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81
Enthalpy Exchange Efficiency (%) [50Hz/60Hz]	For Heating	Ultra-High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		Low	76/76.5	74/74	77/77	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	75/76
	For Cooling	Ultra-High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62
		High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62
		Low	70/70.5	66/66	70/70	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67
Sound Level dB(A) [50Hz/60Hz]	Heat Exchange Mode	Ultra-High	27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42
		High	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40
		Low	20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39
	Bypass Mode	Ultra-High	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44
		High	27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42
		Low	22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41
Casing			Galvanised steel plate								
Insulation Material			Self-extinguishable polyurethane foam								
Dimensions (H×W×D)		mm	278×810×551		306×879×800		338×973×832	387×1,111×832	387×1,111×1,214	785×1,619×832	785×1,619×1,214
Weight		kg	24		32		45	55	67	129	157
Heat Exchange System			Air to air cross flow total heat (Sensible heat + latent heat) exchange								
Heat Exchange Element Material			Specially processed nonflammable paper								
Air Filter			Multidirectional fibrous fleeces								
Fan	Type		Sirroco fan								
	Air Flow Rate (m^3/h) [50Hz/60Hz]	Ultra-High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		Low	100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580
	External Static Pressure (Pa) [50Hz/60Hz]	Ultra-High	120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140
		High	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32
		Low	56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45
	Motor Output	kW	0.030×2		0.090×2		0.140×2	0.280×2		0.280×4	
Connection Duct Diameter		mm	ϕ100	ϕ150		ϕ200		ϕ250		ϕ350	
Unit ambient condition			-15°C~+50°CDB, 80%RH or less								

Note:
1. Sound level is measured at 1.5m below the centre of the body.
2. Air flow rate can be changed over to Low mode or High mode.
3. Sound level is measured in an anechoic chamber.
   Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
4. The sound level at the air discharge port is about 8 dB higher than the unit's sound level.
5. The specifications, designs and information given here are subject to change without notice.
6. Temperature Exchange Efficiency is the mean value between cooling and heating.
7. Efficiency is measured under the following conditions:
   Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.
9. Sound level from the discharge port causes the value to be approximately 8 dB (models with the air flow rate of less than 150 to 500 m^3/h) to approximately 11 dB (models with the air flow rate of 650 m^3/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
10. With large models in particular (1500 and 2000 m^3/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
    •Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
    •Decentralised installation of discharge grilles
11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:
    •Use of ceiling materials with high sound insulating properties (high transmission loss)
    •Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.
    Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

OPTION



Option List

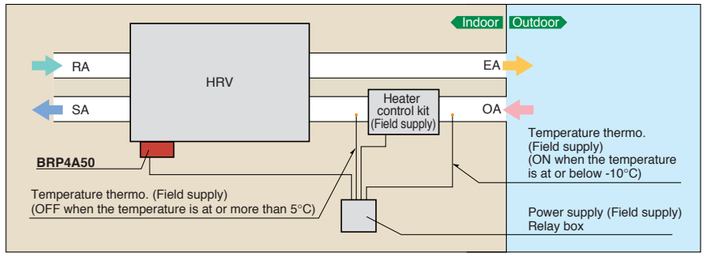
Member \ Applicable model			VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE
Controlling device	HRV remote controller		BRC301B61
	Centralised controlling device	Central remote controller	DCS302CA61
		Unified ON/OFF controller	DCS301BA61
		Schedule timer	DST301BA61
	PC Board Adaptor	Wiring adaptor for electrical appendices	KRP2A61
		For humidifier	KRP50-2
		Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of HRV)
		For heater control kit	BRP4A50
		For wiring — Type (indoor unit of VRV)	FXCQ-M / FXFQ-M / FXKQ-MA / FXDQ-P FXDQ-N(A) / FXSQ-M / FXMQ-MA / FXHQ-MA / FXAQ-MA / FXLQ-MA FXNQ-MA
			KRP1B61★ / KRP1B59★ / KRP1B61 / KRP1B56★ / KRP1B61 / KRP1B61 / KRP1B3 / — / KRP1B61
		Installation box for adaptor PCB☆	Note 2, 3 KRP1B96 / Note 2, 3 KRP1D98 / — / Note 4, 6 KRP1B101 / Note 5 KRP4A91 / — / Note 3 KRP1C93 / Note 2, 3 KRP4A93 / —

Note:
1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box☆ is necessary for second adaptor.
6. Installation box☆ is necessary for each adaptor.

Member \ Applicable model		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—			KDDM24B50	KDDM24B100			KDDM24A100X2	
	Silencer — Nominal pipe diameter (mm)	—			ϕ200	ϕ250				
	High efficiency filter	KAF242G25M		KAF242G50M		KAF242G65M	KAF242G80M	KAF242G100M	KAF242G80MX2	KAF242G100MX2
	Air filter for replacement	KAF241G25M		KAF241G50M		KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2
Flexible duct (1m)		K-FDS101C	K-FDS151C		K-FDS201C		K-FDS251C			
Flexible duct (2m)		K-FDS102C	K-FDS152C		K-FDS202C		K-FDS252C			
Duct adaptor		—							YDFA25A1	
Duct adaptor — Nominal pipe diameter (mm)		—							ϕ250	

PC board adaptor for heater control kit (BRP4A50)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



Notes when installing

- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standerd and regulation of each country at site.
- Use a non-inflammable connecting duct to the electric heater. Be sure to allow 2 m or more between the electric heater and HRV for safty.
- For the HRV units, use a different power supply from that of the electric heater and install a circuit breaker for each.

MEMO

MEMO